YAESU

# Quad Band FM Transceiver

# FT-8900R

# Technical Supplement

 (EH008M90A)

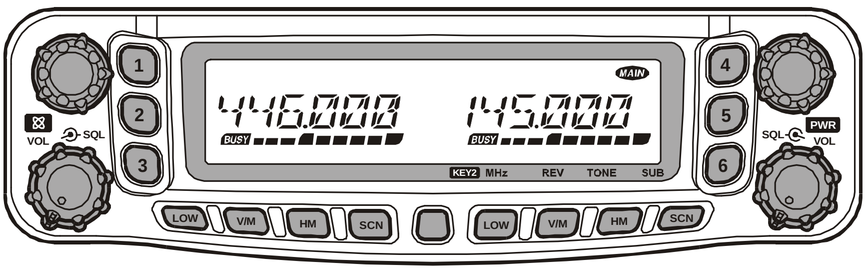
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## *Introduction*

This manual provides technical information necessary for servicing the FT-8900R Transceiver.

Servicing this equipment requires expertise in handling surface-mount chip components. Attempts by non-qualified persons to service this equipment may result in permanent damage not covered by the warranty, and may be illegal in some countries.

Two PCB layout diagrams are provided for each double-sided circuit board in the transceiver. Each side of thr board is referred to by the type of the majority of components installed on that side ("leaded" or "chip-only"). In most cases one side has only chip components, and the other has either a mixture of both chip and leaded components (trimmers, coils, electrolytic capacitors, ICs, etc.), or leaded components only.

While we believe the technical information in this manual to be correct, Vertex Standard assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.

## Contents

# Specifications

## General

| | | |
|---|---|---|
| **Frequency Range**: | RX: | 28.000 - 29.700 MHz, 50.000 - 54.000 MHz, 108.000 - 180.000 MHz, 320.000 - 480.000 MHz, 700 - 985 MHz (Cellular Blocked) |
| | TX: | 28.000 - 29.700 MHz, 50.000 - 54.000 MHz, 144.000 - 146.000 MHz (or 144.000 - 148.000 MHz), 430.000 - 440.000 MHz (or 430.00 - 450.000 MHz) |
| **Channel Steps**: | 5/10/12.5/15/20/25/50 kHz | |
| **Modes of Emission**: | F3, F2, F1 | |
| **Antenna Impedance**: | 50-Ohms, unbalanced (Antenna Duplexer built-in) | |
| **Frequency Stability**: | ±5 ppm @ 14° F ~ +140° F (–10 °C ~ +60 °C) | |
| **Operating Temperature Range**: | –4° F ~ +140° F (–20 °C ~ +60 °C) | |
| **Supply Voltage**: | 13.8 VDC (±15%), negative ground | |
| **Current Consumption** (Approx.): | RX: 0.5 A (Squelched)<br>TX: 8.0 A (50/430 MHz), 8.5 A (29/144 MHz) | |
| **Case Size** (W x H x D): | 5.5” x 1.6” x 6.6” (140 x 41.5 x 168 mm) (w/o knobs & connectors) | |
| **Weight** (Approx.): | 2.2 lb (1 kg) | |

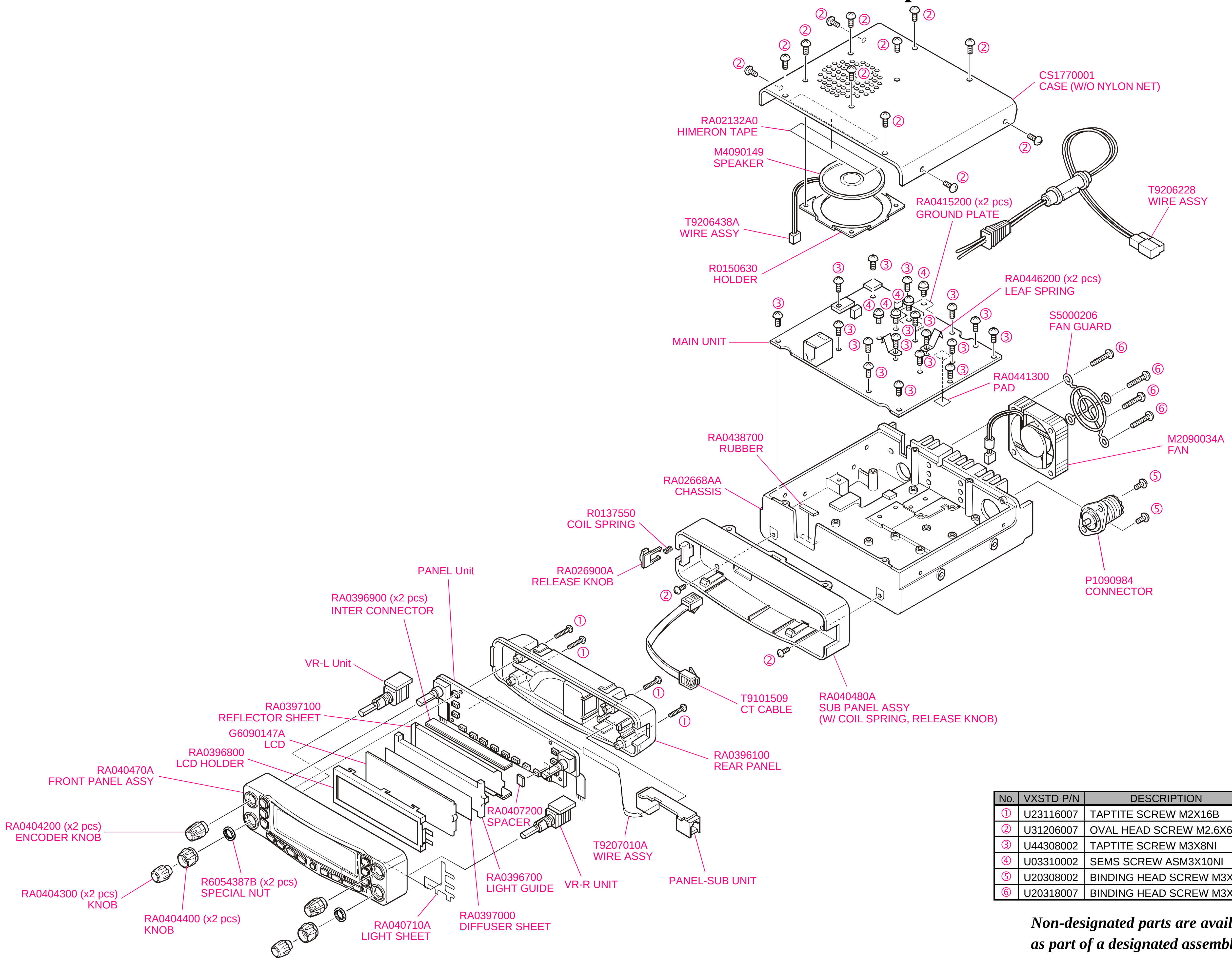
## Transmitter

| | |
|---|---|
| **Output Power**: | 50/20/10/5 W (29/50/144 MHz),<br>35/20/10/5 W (430 MHz) |
| **Modulation Type**: | Variable Reactance |
| **Maximum Deviation**: | ±5 kHz (50/144/430 MHz),<br>±2.5 kHz (29 MHz) |
| **Spurious Radiation**: | Better than –60 dB (29 MHz: Better than –50 dB) |
| **Modulation Distortion**: | Less than 3% |
| **Microphone Impedance**: | 2 kΩ |
| **DATA Jack Impedance**: | 10 kΩ |

## Receiver

| | |
|---|---|
| Circuit Type: | Double-conversion superheterodyne |
| Intermediate Frequencies: | 45.05 MHz/450 kHz (Left band),<br>47.25 MHz/450 kHz (Right band) |
| Sensitivity (for 12dB SINAD): | Better than 0.2 µV |
| Squelch Sensitivity: | Better than 0.16 µV |
| Selectivity (–6dB/–60dB): | 8 kHz/30 kHz (50/144/430 MHz),<br>6 kHz/30 kHz (29 MHz) |
| Maximum AF Output: | 2 W @ 8 Ω for 5% THD |
| AF Output Impedance: | 4-16 Ω |

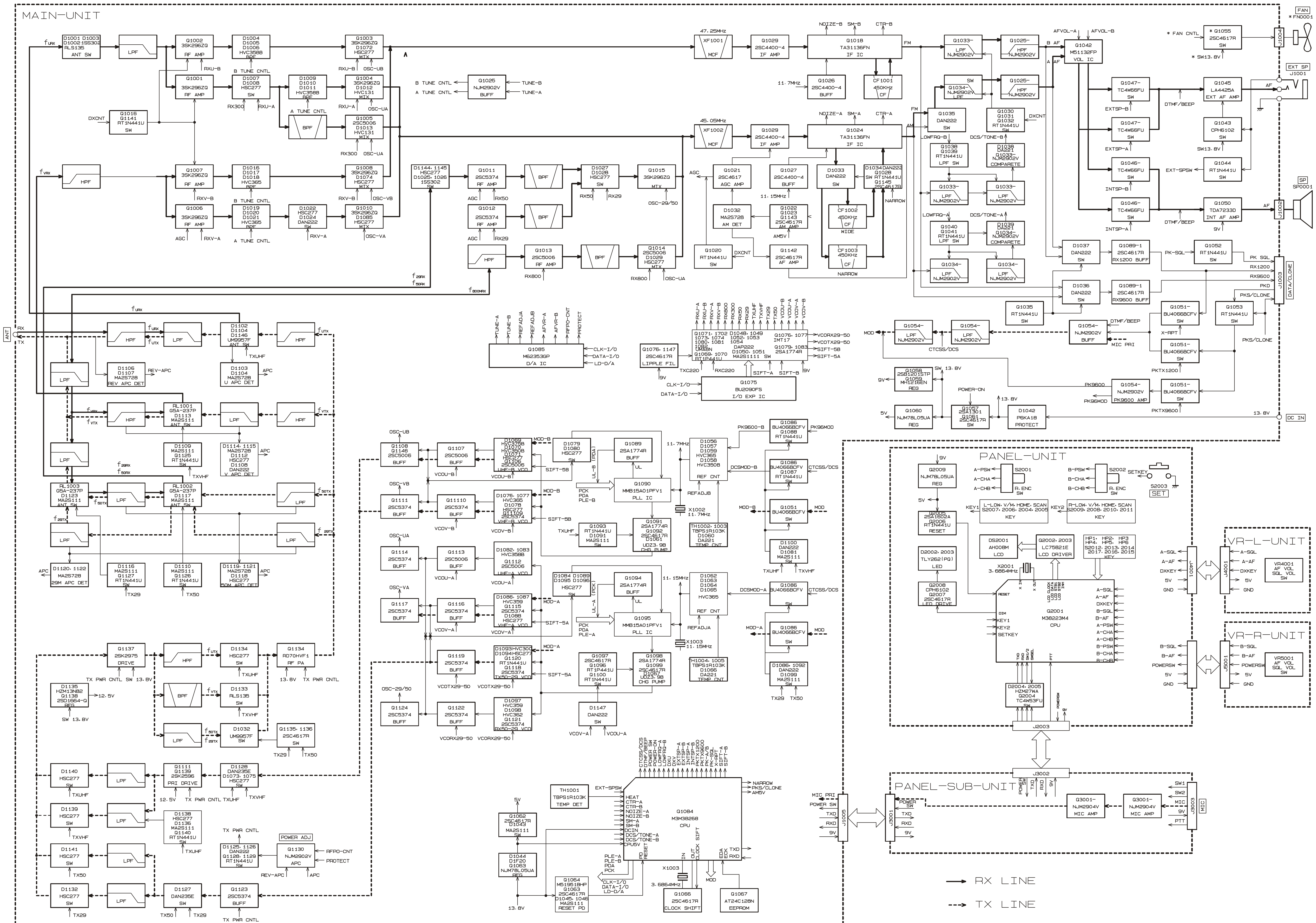
*Specifications are subject to change without notice, and are guaranteed within the 29, 50, 144, and 430 MHz amateur bands only. Frequency ranges will vary according to transceiver version; check with your dealer.*




| No. | VXSTD P/N | DESCRIPTION | QTY. |
|---|---|---|---|
| ① | U23116007 | TAPTITE SCREW M2X16B | 4 |
| ② | U31206007 | OVAL HEAD SCREW M2.6X6B | 14 |
| ③ | U44308002 | TAPTITE SCREW M3X8NI | 17 |
| ④ | U03310002 | SEMS SCREW ASM3X10NI | 4 |
| ⑤ | U20308002 | BINDING HEAD SCREW M3X8NI | 2 |
| ⑥ | U20318007 | BINDING HEAD SCREW M3X18B | 4 |

***Non-designated parts are available only as part of a designated assembly.***

# Connection Diagram



## Receiver Signal Path

### *“Left” Band 430 MHz Signal*

The 430 MHz signal is passed through a high-pass filter network and a low-pass filter network to the antenna switch diodes **D1001/D1002** (both **RLS135**), then passed through another low-pass filter network to the “Left” band RF amplifier **Q1001** (**3SK296ZQ**).

The amplified 430 MHz signal is passed through the band switch **D1008** (**HSC277**) to the varactor-tuned band-pass filter network consisting of **D1009**, **D1010**, **D1011** (all **HVC358B**) and associated circuitry, then applied to the first mixer **Q1004** (**3SK296ZQ**). Meanwhile, the UHF local signal from the UHF-VCO/A **Q1112** (**2SC5006**) is delivered to first mixer **Q1004**, yielding the 45.05 MHz “Left” band first IF.

### *“Left” Band 144 MHz Signal*

The 144 MHz signal is passed through a low-pass filter network and a high-pass filter network to the antenna switching relay **RL1001** (**G5A-237P**), then passed through another high-pass filter network and low-pass filter network to the “Left” band RF amplifier **Q1006** (**3SK296ZQ**).

The amplified 144 MHz signal is passed through a varactor-tuned band-pass filter network consisting of **D1019**, **D1020**, **D1021** (all **HVC365**) and associated circuitry to the first mixer **Q1010** (**3SK296ZQ**). Meanwhile, the VHF local signal from the VHF-VCO/A **Q1115** (**2SC5374**) is delivered to first mixer **Q1010**, yielding the 45.05 MHz “Left” band first IF.

### *“Left” Band 50 MHz Signal*

The 50 MHz signal is passed through a low-pass filter network and antenna switching relay **RL1003** (**G5A-237P**), then passed through another low-pass filter network, antenna switch relay **RL1002** (**G5A-237P**), and band switch diode **D1144** (**HSC277**) to yet another low-pass filter network, then applied to the “Left” band RF amplifier **Q1006** (**3SK296ZQ**).

The amplified 50 MHz signal is passed through a band-pass filter network and band switch diode **D1027** (**HSC277**) to the first mixer **Q1015** (**3SK296ZQ**). Meanwhile, the 50 MHz local signal from the RX50-29-VCO **Q1121** (**2SC5374**) is delivered to first mixer **Q1015**, yielding the 45.05 MHz “Left” band first IF.

### *“Left” Band 28 MHz Signal*

The 28 MHz signal is passed through a low-pass filter network and antenna switching relay **RL1003** (**G5A-237P**), then passed through another low-pass filter network, antenna switching relay **RL1002** (**G5A-237P**) and band switch diode **D1144** (**HSC277**) to yet another low-pass filter network, then delivered to the “Left” band RF amplifier **Q1012** (**2SC5374**).

The amplified 28 MHz signal is passed through a band-pass filter network and band switch diode **D1028** (**HSC277**) to the first mixer **Q1015** (**3SK296ZQ**). Meanwhile, the 28 MHz local signal from the RX50-29-VCO **Q1121** is delivered to first mixer **Q1012**, yielding the 45.05 MHz “Left” band first IF.

### *“Left” Band IF and AF Signals*

The 45.05 MHz “Left” band first local signal is delivered to the monolithic crystal filter **XF1002** which strips away unwanted mixer products, then is passed through IF amplifier **Q1019** (**2SC4400**) to the IF IC **Q1024** (**TA31136FN**).

Meanwhile, a portion of the output of 11.15 MHz crystal **X1003** is multiplied fourfold by **Q1027** (**2SC4400**) to provide the 44.6 MHz second local signal, then delivered to the IF IC **Q1024**. Within the IF IC **Q1024**, the 44.6 MHz second local signal is mixed with the 45.05 MHz “Left” band first local signal to produce the 450 kHz “Left” band second IF.

The 450 kHz “Left” band second IF is passed through the filter switch **D1033**/**D1034** (both **DAN235E**) to the ceramic filter **CF1002** (**CFWM450E**) which strips away all but the desired signal, then it passes through the IF amplifier within Q1024 to the ceramic discriminator **CD1002** (**CDBM450C24**), which removes any amplitude variations in the 450 kHz IF signal before detection of speech.

The demodulated “Left” band audio is passed through the de-emphasis network, audio switch **D1035** (**DAN222**), low-pass filter network (consisting of **Q1034** (**NJM2902V**) and associated circuitry), and a high-pass filter network (consisting of **Q1025** (**NJM2092V**) and associated circuitry). The filtered audio signal is passed through the audio volume control IC **Q1042** (**M511312FP**), which adjusts the audio sensitivity to compensate for audio level variations, then is delivered to the audio switch **Q1046** and **Q1047** (both **TC4W66FU**).

When the internal speaker is selected, the audio signal is amplified by **Q1050** (**TDA7233D**) then applied to the internal loudspeaker. When the external speaker is selected, the audio signal is amplified by **Q1045** (**LA4425A**), then it passes through the **EXT SP** jack to the external loudspeaker.

### *“Right” Band 430 MHz Signal*

The 430 MHz signal is passed through a high-pass filter network and a low-pass filter network to the antenna switch diodes **D1001**/**D1002**, then passed through another low-pass filter network to the “Right” band RF amplifier **Q1002** (**3SK296ZQ**).

The amplified 430 MHz signal is delivered through the band switch **D1008** (**HSC277**) to the varactor-tuned band-pass filter network consisting of **D1004**, **D1005**, **D1006** (all **HVC358B**) and associated circuitry, then applied to the

first mixer **Q1003** (**3SK296ZQ**). Meanwhile, the UHF local signal from the UHF-VCO/B **Q1106** (**2SC5006**) is delivered to first mixer **Q1004**, yielding the 47.25 MHz "Right" band first IF.

### *"Right" Band 144 MHz Signal*

The 144 MHz signal is passed through a low-pass filter network and a high-pass filter network to the antenna switching relay **RL1001** (**G5A-237P**), then passed through another high-pass filter network and low-pass filter network to the "Right" band RF amplifier **Q1007** (**3SK296ZQ**).

The amplified 144 MHz signal is passed through the varactor-tuned band-pass filter network consisting of **D1016**, **D1017**, **D1018** (all **HVC365**) and associated circuitry to the first mixer **Q1008** (**3SK296ZQ**). Meanwhile, the VHF local signal from the VHF-VCO/B **Q1109** (**2SC5374**) is delivered to first mixer **Q1008**, yielding the 47.25 MHz "Right" band first IF.

### *"Right" Band IF and AF Signal*

The 47.25 MHz "Right" band first IF is delivered to the monolithic crystal filter **XF1001** which strips away unwanted mixer products, then passed through the IF amplifier **Q1017** (**2SC4400**) to the IF IC **Q1018** (**TA31136FN**).

Meanwhile, a portion of the output of 11.7 MHz crystal **X1002** is multiplied fourfold by **Q1026** (**2SC4400**) to provide the 46.8 MHz second local signal, then applied to the IF IC **Q1018**. Within the IF IC **Q1018**, the 46.8 MHz second local signal is mixed with the 47.25 MHz "Right" band first local signal to produce the 450 kHz "Right" band second IF.

The 450 kHz "Right" band second IF is delivered to the ceramic filter **CF1001** (**CFWM450E**) which strips away all but the desired signal, then passed through the IF amplifier within **Q1018** to the ceramic discriminator **CD1001** (CDBM450C24) which removes any amplitude variations in the 450 kHz IF signal before detection of speech.

The demodulated "Right" band audio is passed through the de-emphasis network, low-pass filter network (consisting of **Q1033** (**NJM2902V**) and associated circuitry) and the high-pass filter network (consisting of **Q1025** (**NJM2092V**) and associated circuitry). The filtered audio signal is passed through the audio volume control IC **Q1042** (**M511312FP**), which adjusts the audio sensitivity to compensate for audio level variations, then is delivered to the audio switch **Q1046** and **Q1047** (both **TC4W66FU**).

When the internal speaker is selected, the audio signal is amplified by **Q1050** (**TDA7233D**) then applied to the internal loudspeaker. When the external speaker is selected, the audio signal is amplified by **Q1045** (**LA4425A**), then it passes through the **EXT SP** jack to the external loudspeaker.

## *Squelch Control*

### *"Left" Band*

When no carrier is being received on the "Left" band, noise at the output of the detector stage in **Q1024** is amplified and band-pass filtered by the noise amp section of **Q1024**. The resulting DC voltage is delivered to pin 2 of main CPU **Q1084** (**M38268MCL**), which compares the squelch threshold level to that which set by the front panel **SQL** knob.

While no carrier is being received on the "Left" band, pins 43 and 45 of **Q1084** remain "low," to disable the audio switch **Q1046**/**Q1047**, thus disabling the audio output from the speaker.

### *"Right" Band*

When no carrier is being received on the "Right" band, noise at the output of the detector stage in **Q1018** is amplified and band-pass filtered by the noise amp section of **Q1018**. The resulting DC voltage is delivered to pin 5 of main CPU **Q1084**, which compares the squelch threshold level to that which set by the front panel **SQL** knob.

While no carrier is being received on the "Left" band, pins 42 and 44 of **Q1084** remain "low," to disable the audio switch **Q1046** and **Q1047**, thus disabling the audio output from the speaker.

## *Transmitter Signal Path*

### *AF Signal*

The speech signal from the microphone is passed through the **MIC** jack **J3003** to the AF amplifier **Q3001** (**NJM2904V**) on the PANEL-SUB UNT. The amplified speech signal is passed through the panel separation jacks **J3001** and **J1005** to the MAIN Unit. On the MAIN UNIT, the speech signal is delivered to the limiting amplifier **Q1054** (**NJM2902V**) to prevent over-modulation, then is delivered to a low-pass filter network consisting of **Q1054** and associated circuitry.

### *430 MHz Signal*

The adjusted speech signal from **Q1054** is passed through transistor switch **Q1051** (**BU4066BCFV**) to varactor diodes **D1069** (**HVC375**) and **D1070** (**HVC350B**), which frequency modulate the transmitting VCO, made up of UHF-VCO/B **Q1106** (**2SC5006**) and **D1071** (**HSC277**).

The modulated transmit signal is passed through buffer amplifiers **Q1107**, **Q1108**, and **Q1146** (all **2SC5006**) and diode switches **D1073** (**HSC277**) and **D1128** (**DAN235E**) to the pre-drive amplifier **Q1139** (**2SK2596**).

The amplified transmit signal from **Q1139** is passed through diode switch **D1134** (**HSC277**) and the driver amplifier **Q1137** (**2SK2975**) to the diode switch **D1134** (**HSC277**), then finally amplified by power amplifier

**Q1134** (**RD70HVF1**), providing up to 35 Watts of power output. These three stages of the power amplifier's gain are controlled by the APC circuit.

The 35-Watt RF signal is passed through a high-pass filter network to the antenna switch **D1102**, **D1104**, and **D1146** (all **UM9957F**), then passed through a low-pass filter network and another high-pass filter network to the ANT jack.

### *144 MHz Signal*

The adjusted speech signal from Q1054 is passed through the transistor switch **Q1051** (**BU4066BCFV**) to varactor diodes **D1076** and **D1077** (both **HVC365**), which frequency modulate the transmitting VCO, made up of VHF-VCO/B **Q1109** (**2SC5374**) and **D1078** (**HSC277**).

The modulated transmit signal is passed through buffer amplifiers **Q1100** and **Q1111** (both **2SC5374**) and diode switches **D1075** (**HSC277**) and **D1128** (**DAN235E**) to the pre-drive amplifier **Q1139** (**2SK2596**).

The amplified transmit signal from **Q1139** is passed through the diode switch **D1139**/**D1140** (both **HSC277**) and the driver amplifier **Q1137** (**2SK2975**) to diode switch **D1133** (**RLS135**), then finally amplified by power amplifier **Q1134** (**RD70HVF1**) up to 50 Watts of power output. These three stages of the power amplifier's gain are controlled by the APC circuit.

The 50-Watt RF signal is passed through a low-pass filter network to the antenna switching relay **RL1001** (**G5A-237P**), then passed through a high-pass filter network and another low-pass filter network to the ANT jack.

### *50 MHz Signal*

The adjusted speech signal from **Q1054** is passed through transistor switch **Q1086** (**BU4066BCFV**) to varactor diode **D1093** (**HVC300A**), which frequency modulates the transmitting VCO, made up of TX50-29-VCO **Q1118** (**2SC5374**) and **D1094** (**HSC277**).

The modulated transmit signal is passed through buffer amplifier **Q1119** (**2SC5374**) to the pre-Drive amplifier **Q1123** (**2SC5374**).

The amplified transmit signal from **Q1123** is passed through diode switches **D1127** (**DAN235E**) and **D1141** (**HSC277**) and driver amplifier **Q1137** (**2SK2975**) to diode switch **D1132** (**D1F20**), then finally amplified by power amplifier **Q1134** (**RD70HVF1**) up to 50 Watts of power output. These three stages of the power amplifier's gain are controlled by the APC circuit.

The 50-Watt RF signal is passed through antenna switching relay **RL1002** (**G5A-237P**) to a low-pass filter network, then passed through antenna switching relay **RL1003** (**G5A-237P**) and another low-pass filter network to the ANT jack.

### *28 MHz Signal*

The adjusted speech signal from **Q1054** is passed through transistor switch **Q1086** (**BU4066BCFV**) to varactor diode **D1093** (**HVC300A**), which frequency modulates the transmitting VCO, made up of TX50-29-VCO **Q1118** (**2SC5374**) and **D1094** (**HSC277**).

The modulated transmit signal is passed through buffer amplifier **Q1119** (**2SC5374**) to the pre-Drive amplifier **Q1123** (**2SC5374**).

The amplified transmit signal from **Q1123** is passed through diode switches **D1127** (**DAN235E**) and **D1142** (**HSC277**) and driver amplifier **Q1137** (**2SK2975**) to diode switch **D1132** (**D1F20**), then finally amplified by power amplifier **Q1134** (**RD70HVF1**) up to 50 Watts of output power. There three stages of the power amplifier's gain are controlled by the APC circuit.

The 50-Watt RF signal is passed through antenna switching relay **RL1002** (**G5A-237P**) to a low-pass filter network, then passed through antenna switching relay **RL1003** (**G5A-237P**) and another low-pass filter network to the ANT jack.

## *APC (Automatic Power Control) Circuit*

### *430 MHz*

A portion of the power amplifier output is rectified by **D1103** and **D1105** (both **MA2S728**) then delivered to APC **Q1130** (**NJM2904V**), as a DC voltage which is proportional to the output level of the power amplifier.

At **Q1130**, the rectified DC voltage from the power amplifier is compared to the reference voltage from the main CPU **Q1084** to produce a control voltage, which regulates the supply voltage to the pre-drive amplifier **Q1139** (**2SK5396**), driver amplifier **Q1137** (**2SK2975**), and power amplifier **Q1134** (**RD70HVF1**), so as to maintain stable output power under varying antenna loading conditions.

### *144 MHz*

A portion of the power amplifier output is rectified by **D1114** and **D1115** (both **MA2S728**) then delivered to APC **Q1130** (**NJM2904V**), as a DC voltage which is proportional to the output level of the power amplifier.

At **Q1130**, the rectified DC voltage from the power amplifier is compared to the reference voltage from the main CPU **Q1084** to produce a control voltage, which regulates the supply voltage to the pre-drive amplifier **Q1139** (**2SK5396**), driver amplifier **Q1137** (**2SK2975**), and power amplifier **Q1134** (**RD70HVF1**), so as to maintain stable output power under varying antenna loading conditions.

### *50 MHz*

A portion of the power amplifier output is rectified by **D1119** and **D1121** (both **MA2S728**) then delivered to APC

**Q1130** (**NJM2904V**), as a DC voltage which is proportional to the output level of the power amplifier.

At **Q1130**, the rectified DC voltage from the power amplifier is compared to the reference voltage from the main CPU **Q1084** to produce a control voltage, which regulates supply voltage to the pre-drive amplifier **Q1123** (**2SK5374**), driver amplifier **Q1137** (**2SK2975**), and power amplifier **Q1134** (**RD70HVF1**), so as to maintain stable output power under varying antenna loading conditions.

### *29 MHz*

A portion of the Power amplifier output is rectified by **D1120** and **D1122** (both **MA2S728**) then delivered to APC **Q1130** (**NJM2904V**), as a DC voltage which is proportional to the output level of the power amplifier.

At **Q1130**, the rectified DC voltage from the power amplifier is compared to the reference voltage from the main CPU **Q1084** to produce a control voltage, which regulates supply voltage to the pre-drive amplifier **Q1123** (**2SK5374**), driver amplifier **Q1137** (**2SK2975**), and power amplifier **Q1134** (**RD70HVF1**), so as to maintain stable output power under varying antenna loading conditions.

## *PTT (Push to Talk) Circuit*

### *430 MHz*

When the PTT switch is pressed, pin 8 of sub CPU **Q2001** (**M38223E4HP**) goes "high," which sends the "PTT" command to main CPU **Q1084**.

When the "PTT" command is received, the main CPU controls the I/O IC **Q1075** (**BU2090FS**), causing pin 12 of **Q1075** to go "low" which activates the UHF TX switch section of **Q1076** (**IMT17**).

When the UHF TX switch section of **Q1076** is activated, it controls the antenna switch diodes **D1102**, **D1104**, and **D1146** (all **UM9957F**), modulator switching diode **D1100** (**DAN222**), modulator switching IC **Q1051** (**BU4066BCFV**), diode switches **D1073** (**HSC277**), **D1128** (**DAN235E**), **D1140** (**HSC277**), and **D1134** (**HSC277**), and APC switches **Q1128** (**RT1N441U**) and **Q1129** (**RT1P441U**), which activate the 430 MHz transmitter circuit.

### *144 MHz*

When the PTT switch is pressed, pin 8 of sub CPU **Q2001** (**M38223E4HP**) goes "high," which sends the "PTT" command to main CPU **Q1084**.

When the "PTT" command is received, the main CPU controls the I/O IC **Q1075** (**BU2090FS**), causing pin 13 of **Q1075** to go "low" which activates the VHF TX switch section of **Q1076** (**IMT17**).

When the VHF TX switch section of **Q1076** is activated, it controls the antenna switching relay **RL1001** (**G5A-237P**), modulator switching diode **D1100** (**DAN222**), modulator switching IC **Q1051** (**BU4066BCFV**), diode switches **D1075** (**HSC277**), **D1128** (**DAN235E**), **D1139** (**HSC277**), and **D1133** (**RSL135**), and APC switches **Q1128** (**RT1N441U**) and **Q1129** (**RT1P441U**), which activate the 144 MHz transmitter circuit.

### *50 MHz*

When the PTT switch is pressed, pin 8 of sub CPU **Q2001** (**M38223E4HP**) goes "high," which sends the "PTT" command to the main CPU **Q1084**.

When the "PTT" command is received, the main CPU controls the I/O IC **Q1075** (**BU2090FS**), causing pin 14 of **Q1075** to go "low" which activates the TX50 switch section of **Q1077** (**IMT17**).

When the TX50 switch section of **Q1076** is activated, it controls the antenna switching relay **RL1002** (**G5A-237P**), modulator switching diode **D1092** (**DAN222**), modulator switching IC **Q1086** (**BU4066BCFV**), diode switches **D1127** (**DAN235E**), **D1141** (**HSC277**), and **D1132** (**D1F20**), and APC switches **Q1128** (**RT1N441U**) and **Q1129** (**RT1P441U**), which activate the 50 MHz transmitter circuit.

### *28 MHz*

When the PTT switch is pressed, pin 8 of sub CPU **Q2001** (**M38223E4HP**) goes "high," which sends the "PTT" command to the main CPU **Q1084**.

When the "PTT" command is received, the main CPU controls the I/O IC **Q1075** (**BU2090FS**), causing pin 15 of **Q1075** to go "low" which activates the TX29 switch section of **Q1077** (**IMT17**).

When the TX29 switch section of **Q1076** is activated, it controls the antenna switching relay **RL1003** (**G5A-237P**), modulator switching diode **D1092** (**DAN222**), modulator switching IC **Q1086** (**BU4066BCFV**), diode switches **D1127** (**DAN235E**), **D1142** (**HSC277**), and **D1132** (**D1F20**), and APC switches **Q1128** (**RT1N441U**) and **Q1129** (**RT1P441U**), which activate the 28 MHz transmitter circuit.

## *PLL Circuit*

### *"Left" band*

A portion of the output from UHF-VCO/A **Q1112** (**2SC5006**) is passed through buffer amplifier **Q1113** (**2SC5374**) and diode switch **D1084** (**HSC277**) to the programmable divider section of the PLL IC **Q1095** (**MB15A02PFV1**), where it is divided according to the frequency dividing data associated with the operating frequency input from the main CPU **Q1084**. It is then sent to the phase comparator.

A portion of the output from the VHF-VCO/A **Q1115** (**2SC5374**) is passed through buffer amplifier **Q1116** (**2SC5374**) and diode switch **D1089** (**HSC277**) to the programmable divider section of the PLL IC **Q1095**, where it

is divided according to the frequency dividing data associated with the operating frequency input from the main CPU **Q1084**. It is then sent to the phase comparator.

A portion of the output from the TX50-29-VCO **Q1118** (**2SC5374**) is passed through buffer amplifier **Q1119** (**2SC5374**) and diode switch **D1096** (**HSC277**) to the programmable divider section of the PLL IC **Q1095**, where it is divided according to the frequency dividing data associated with the operating frequency input from the main CPU **Q1084**. It is then sent to the phase comparator.

A portion of the output from the RX50-29-VCO **Q1121** (**2SC5374**) is passed through buffer amplifier **Q1122** (**2SC5374**) and diode switch **D1096** to the programmable divider section of the PLL IC **Q1095**, where it is divided according to the frequency dividing data associated with the operating frequency input from the main CPU **Q1084**. It is then sent to the phase comparator.

The 11.15 MHz reference oscillator **X1003** frequency is divided by the reference frequency divider section of **Q1095** into 2230 or 1784 parts, to become 5 kHz or 6.25 kHz comparative reference frequencies, which are utilized by the phase comparator.

The phase comparator section of **Q1095** compares the phase between the frequency-divided oscillation frequency of the VCO circuit and the comparative frequency, and its output is a pulse corresponding to the phase difference. This pulse is integrated by the charge pump consisting of **D1067** (**UDZS5.1B**), **Q1098** (**2SA1774**), **Q1099** (**2SC4617**), and loop filter into a control voltage (VCV) to control the oscillation frequency of the VCOs.

### *"Right" band*

A portion of the output from the UHF-VCO/B **Q1106** (**2SC5006**) is passed through buffer amplifier **Q1107** (**2SC5006**) and diode switch **D1079** (**HSC277**) to the programmable divider section of the PLL IC **Q1090** (**MB15A02PFV1**), where it is divided according to the frequency dividing data associated with the operating frequency input from the main CPU **Q1084**. It is then sent to the phase comparator.

A portion of the output from the VHF-VCO/B **Q1109** (**2SC5374**) is passed through buffer amplifier **Q1110** (**2SC5374**) and diode switch **D1080** (**HSC277**) to the programmable divider section of the PLL IC **Q1090**, where it is divided according to the frequency dividing data associated with the operating frequency input from the main CPU **Q1084**. It is then sent to the phase comparator.

The 11.70 MHz reference oscillator **X1002** frequency is divided by the reference frequency divider section of **Q1090** into 2340 or 1872 parts to become 5 kHz or 6.25 kHz comparative reference frequencies, which are utilized by the phase comparator.

The phase comparator section of **Q1090** compares the phase between the frequency-divided oscillation frequency of the VCO circuit and the comparative frequency, and its output is a pulse corresponding to the phase difference. This pulse is integrated by the charge pump consisting of **D1061** (**UDZS5.1B**), **Q1091** (**2SA1774**), **Q1092** (**2SC4617**), and loop filter into a control voltage (VCV) to control the oscillation frequency of the VCOs.

## *Power Supply Line*

When the user presses and holds in the "Left" VOL knob for 2 seconds, pin 23 of the main CPU **Q1084** goes "low" and pin 39 of main CPU **Q1084** goes "high," which activates the power switch **Q1057** (2SB1301), **Q1061** (**2SC4617**), and **Q1062** (**2SA1774**), to supply 13.8 VDC to each circuit in the transceiver.

**Note**

## Introduction and Precautions

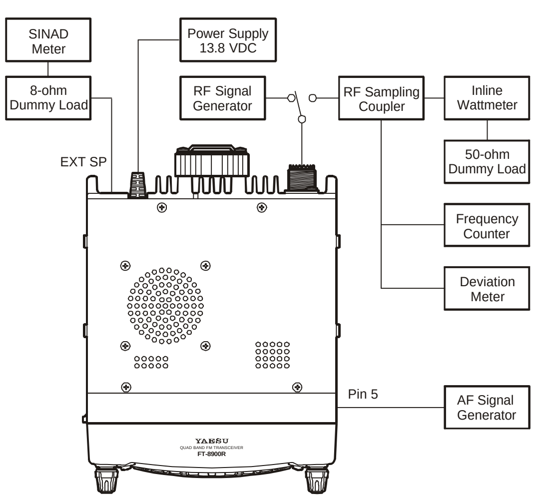
The **FT-8900R** has been carefully aligned at the factory for the specified performance across the 29 MHz, 50 MHz, 144 MHz and 430 MHz amateur bands. Realignment should therefore not be necessary except in the event of a component failure. All component replacement and service should be performed only by an authorized Vertex Standard representative, or the warranty policy may be voided.

The following procedures cover the sometimes critical and tedious adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts are replaced, realignment may be required. If a sudden problem occurs during normal operation, it is likely due to component failure; realignment should not be done until after the faulty component has been replaced.

We recommend that servicing be performed only by authorized Vertex Standard service technicians who are experienced with the circuitry and fully equipped for repair and alignment. Therefore, if a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Authorized Vertex Standard service technicians realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing any faulty components.

Those who do undertake any of the following alignments are cautioned to proceed at their own risk. Problems caused by unauthorized attempts at realignment are not covered by the warranty policy. Also, Vertex Standard must reserve the right to change circuits and alignment procedures in the interest of improved performance, without notifying owners.

Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and the need for realignment determined to be absolutely necessary.




## Required Test Equipment

The following test equipment (and thorough familiarity with its correct use) is necessary for complete realignment. Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy. While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards. Do not attempt to perform only a single step unless it is clearly isolated electrically from all other steps. Have all test equipment ready before beginning, and follow all of the steps in a section in the order presented.

- ❒ Regulated DC Power Supply: adjustable from 10 to 17 VDC, 15 A
- ❒ RF Signal Generator with calibrated output level at 500 MHz
- ❒ Frequency Counter: ±0.1 ppm accuracy at 500 MHz
- ❒ AF Signal Generator
- ❒ SINAD Meter
- ❒ Oscilloscope
- ❒ Spectrum Analyzer
- ❒ Deviation Meter (linear detector)
- ❒ AF Milivoltmeter
- ❒ AF Dummy Load: 8-Ohm, 5 W
- ❒ DC Voltmeter: high impedance
- ❒ Inline Wattmeter with 5% accuracy at 500 MHz
- ❒ 50-Ohm non-reactive Dummy Load: 100 watts at 500 MHz
- ❒ VHF/UHF Sampling Coupler

Set up the test equipment as shown for the transceiver alignment, and apply 13.8 VDC power to the transceiver.

## Alignment Preparation & Precautions

A dummy load and inline wattmeter must be connected to the main antenna jack in all procedures that call for transmission, except where specified otherwise. Correct alignment is not possible with an antenna. After completing one step, read the following step to determine whether the same test equipment will be required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

Correct alignment requires that the ambient temperature in the repair shop be the same as that of the transceiver and test equipment, and that this temperature be held constant between 68 °C and 86 °F (20 °C ~ 30 °C). When the transceiver is brought into the shop from hot or cold air it should be allowed some time for thermal equalization with the environment before alignment. If possible, alignments should be made with oscillator shields and circuit boards firmly affixed in place. Also, the test equipment must be thoroughly warmed up before beginning.

***Notes***: Signal levels in dB referred to in alignment are based on 0 dBμ = 0.5 μV.

# Alignment

## Entering the Alignment mode

Alignment of the **FT-8900R** is performed using a front-panel software-based procedure. To perform alignment of the transceiver, it must first be placed in the "Alignment Mode," in which the adjustments will be made and then stored into memory.

## To enter the Alignment mode:

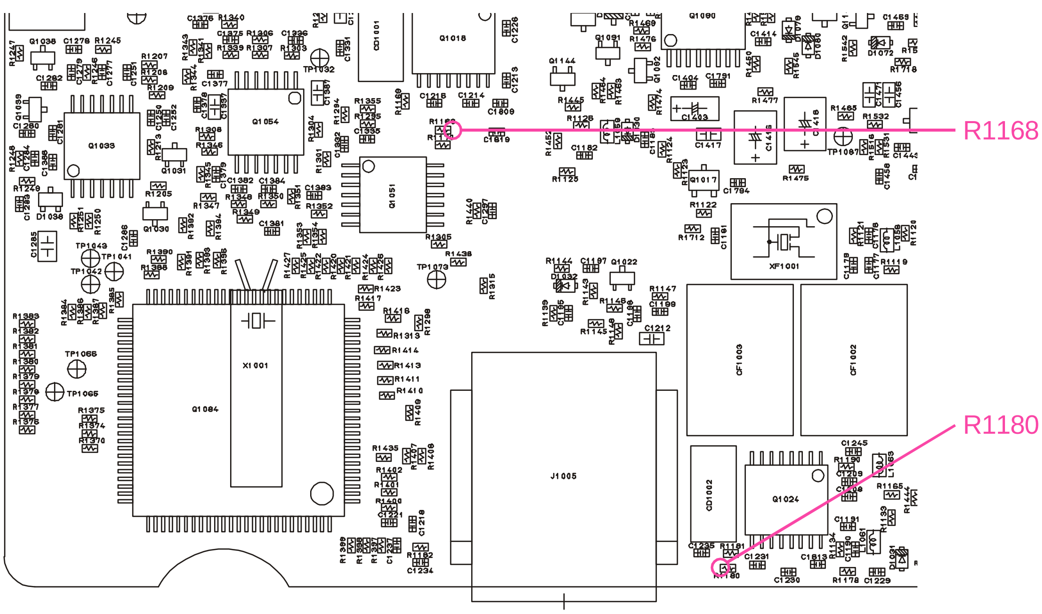
1. Press and hold in the "Left" band [**V/M**] key and the Hyper Memory [**6**] key while turning the radio on. Once the radio is on, release these two keys.
2. Press the front panel keys in the following sequence.
   "Left" band [**LOW**] → "Left" band [**V/M**] →
   "Left" band [**HM**] → "Left" band [**SCN**] →
   "Right" band [**LOW**] → "Right" band [**V/M**] →
   "Right" band [**HM**] → "Right" band [**SCN**].
3. You will now note the appearance of "**A-0 REF.xxH**" on the display, this signifies that the transceiver is now in the "Alignment" mode.

## PLL Reference Frequency (A-0 REF)

1. Press the "Sub" band **DIAL** knob momentarily, if needed, to switch the "Main" band to be the "Left" band.
2. Tune the "Left" band frequency to 52.050 MHz.
3. Press and hold in the in the "Right" **DIAL** knob, if needed, to set the Alignment parameter to "**A-0 REF.xxH**."
4. Press the **PTT** switch to activate the transmitter, and adjust the "Right" **DIAL** knob, as needed, so that the counter frequency reading is 52.050 MHz (±10 Hz).
5. Press the "Right" **DIAL** knob momentarily to switch the "Main" band to be the "Right" band.
6. Tune the "Right" band frequency to 435.050 MHz.
7. Press the **PTT** switch to activate the transmitter, and adjust the "Left" **DIAL** knob, as needed, so that the counter frequency reading is 435.050 MHz (±100 Hz).

## RF Front-end Tuning (A-1 TUN)

1. Connect the DC voltmeter to **R1168** on the MAIN Unit, then inject a 439.050 MHz signal at a level of +10 dBμ (with 1 kHz modulation @ ±3.5 kHz deviation) from the RF Signal Generator.
2. Press the "Sub" band **DIAL** knob momentarily, if needed, to switch the "Main" band to be the "Right" band.
3. Tune the "Right" band frequency to 439.050 MHz.
4. Press and hold in the in the "Left" **DIAL** knob to set the Alignment parameter to "**A-1 TUN.xxH**."
5. Adjust the "Left" **DIAL** knob, as needed, so that the DC voltmeter reading is 1.1 V.
6. Tune the "Right" band frequency to 145.050 MHz.
7. Inject a 145.050 MHz signal at a level of +10 dBμ (with 1 kHz modulation @ ±3.5 kHz deviation) from the RF Signal Generator.
8. Adjust the "Left" **DIAL** knob, as needed, so that the DC voltmeter reading is 1.2 V.
8. Press the "Left" **DIAL** knob momentarily to switch the "Main" band to be the "Left" band.
9. Connect the DC voltmeter to **R1180** on the MAIN Unit.
10. Tune the "Left" band frequency to 439.050 MHz.
11. Inject a 439.050 MHz signal at a level of +10 dBμ (with 1 kHz modulation @ ±3.5 kHz deviation) from the RF Signal Generator.
12. Adjust the "Right" **DIAL** knob, as needed, so that the DC voltmeter reading is 1.1 V.
13. Tune the "Left" band frequency to 145.050 MHz.
14. Inject a 145.050 MHz signal at a level of +10 dBμ (with 1 kHz modulation @ ±3.5 kHz deviation) from the RF Signal Generator.
15. Adjust the "Right" **DIAL** knob, as needed, so that the DC voltmeter reading is 1.2 V.




**MAIN UNIT TEST POINTS**

## *TX Power Output (A-2 PWR)*

1. Press the "Sub" band **DIAL** knob momentarily, if needed, to switch the "Main" band to be the "Right" band.
2. Tune the "Right" band frequency to 440.050 MHz, then set the Transmit Power Level to "LOW."
3. Press and hold in the in the "Left" **DIAL** knob to set the Alignment parameter to "**A-2 PWR.xxH**."
4. Press the **PTT** switch to activate the transmitter, and adjust the "Left" **DIAL** knob, as needed, so that the wattmeter reading is 5 Watts (±0.5 Watt).
5. Increase the Transmit Power Level to "MID2."
6. Press the **PTT** switch to activate the transmitter, and adjust the "Left" **DIAL** knob, as needed, so that the wattmeter reading is 10 Watts (±0.5 Watt).
7. Increase the Transmit Power Level to "MID1."
8. Press the **PTT** switch to activate the transmitter, and adjust the "Left" **DIAL** knob, as needed, so that the wattmeter reading is 20 Watts (±0.5 Watt).
9. Increase the Transmit Power Level to "HIGH."
10. Press the **PTT** switch to activate the transmitter, and adjust the "Left" **DIAL** knob, as needed, so that the wattmeter reading is 35 Watts (±0.5 Watt).
11. Tune the "Right" band frequency to 146.050 MHz, then set the Transmit Power Level to "LOW."
12. Press the **PTT** switch to activate the transmitter, and adjust the "Left" **DIAL** knob, as needed, so that the wattmeter reading is 5 Watts (±0.5 Watt).
13. Press the "Left" **DIAL** knob momentarily to switch the "Main" band to be the "Left" band.
14. Tune the "Left" band frequency to 52.050 MHz, then set the Transmit Power Level to "MID2."
15. Press the **PTT** switch to activate the transmitter, and adjust the "Right" **DIAL** knob, as needed, so that the wattmeter reading is 10 Watts (±0.5 Watt).
16. Tune the "Left" band frequency to 29.050 MHz, then set the Transmit Power Level to "MID2."
17. Press the **PTT** switch to activate the transmitter, and adjust the "Right" **DIAL** knob, as needed, so that the wattmeter reading is 20 Watts (±0.5 Watt).
18. Increase the Transmit Power Level to "HIGH."
19. Press the **PTT** switch to activate the transmitter, and adjust the "Right" **DIAL** knob, as needed, so that the wattmeter reading is 50 Watts (±0.5 Watt).

## *TX Deviation (A-4 DEV)*

1. Press the "Sub" band **DIAL** knob momentarily, if needed, to switch the "Main" band to be the "Right" band.
2. Tune the "Right" band frequency to 440.050 MHz, then set the Transmit Power Level to "LOW."
3. Press and hold in the in the "Left" **DIAL** knob to set the Alignment parameter to "**A-4 DEV.xxH**."
4. Inject a 1 kHz audio tone at a level of 80 mV from the Audio Generator.
5. Press the **PTT** switch to activate the transmitter, and adjust the "Left" **DIAL** knob, as needed, so that the deviation meter reading is 4.5 kHz (±0.2 kHz).
6. Tune the "Right" band frequency to 146.050 MHz, then set the Transmit Power Level to "LOW."
7. Press the **PTT** switch to activate the transmitter, and adjust the "Left" **DIAL** knob, as needed, so that the deviation meter reading is 4.5 kHz (±0.2 kHz).
9. Press the "Left" **DIAL** knob momentarily to switch the "Main" band to be the "Left" band.
10. Tune the "Left" band frequency to 52.050 MHz, then set the Transmit Power Level to "LOW."
11. Press the **PTT** switch to activate the transmitter, and adjust the "Right" **DIAL** knob, as needed, so that the deviation meter reading is 4.5 kHz (±0.2 kHz).
12. Tune the "Left" band frequency to 29.050 MHz, then set the Transmit Power Level to "LOW."
13. Press the **PTT** switch to activate the transmitter, and adjust the "Right" **DIAL** knob, as needed, so that the deviation meter reading is 2.3 kHz (±0.2 kHz).

## *DCS Tx Deviation (A-5 DCS)*

1. Press the "Sub" band **DIAL** knob momentarily, if needed, to switch the "Main" band to be the "Right" band.
2. Press and hold in the in the "Left" **DIAL** knob to set the Alignment parameter to "**A-5 DCS.xxH**."
3. Tune the "Right" band frequency to 440.050 MHz, then activate DCS with the 023 DCS code, and set the Transmit Power Level to "LOW."
4. Press the **PTT** switch to activate the transmitter (with no microphone input), and adjust the "Left" **DIAL** knob, as needed, so that the deviation meter reading is between 0.50 kHz and 0.60 kHz.
5. Tune the "Right" band frequency to 146.050 MHz, then activate DCS with the 023 DCS code, and set the Transmit Power Level to "LOW."
6. Press the **PTT** switch to activate the transmitter (with no microphone input), adjust the "Left" **DIAL** knob, as needed, so that the deviation meter reading is between 0.50 kHz and 0.60 kHz.
7. Press the "Left" **DIAL** knob momentarily to switch the "Main" band to be the "Left" band.
8. Tune the "Left" band frequency to 52.050 MHz, then activate DCS with the 023 DCS code, and set the Transmit Power Level to "LOW."
9. Press the **PTT** switch to activate the transmitter (with no microphone input), and adjust the "Right" **DIAL** knob, as needed, so that the deviation meter reading is between 0.65 kHz and 0.75 kHz.
10. Tune the "Left" band frequency to 29.050 MHz, then activate DCS with the 023 DCS code, and set the Transmit Power Level to "LOW."
11. Press the **PTT** switch to activate the transmitter (with no microphone input), and adjust the "Right" **DIAL**

knob, as needed, so that the deviation meter reading is between 0.35 kHz and 0.45 kHz.

## *CTCSS Tx Deviation (A-6 CTC)*

1. Press the "Sub" band **DIAL** knob momentarily, if needed, to switch the "Main" band to be the "Right" band.
2. Press and hold in the in the "Left" DIAL knob to set the Alignment parameter to "**A-6 CTC.xxH**."
3. Tune the "Right" band frequency to 440.050 MHz, then activate the CTCSS Encoder with a 100 Hz tone, and set the Transmit Power Level to "LOW."
4. Press the **PTT** switch to activate the transmitter (with no microphone input), and adjust the "Left" **DIAL** knob, as needed, so that the deviation meter reading is between 0.65 kHz and 0.75 kHz.
5. Tune the "Right" band frequency to 146.050 MHz, then activate the CTCSS Encoder with a 100 Hz tone, and set the Transmit Power Level to "LOW."
6. Press the **PTT** switch to activate the transmitter (with no microphone input), and adjust the "Left" **DIAL** knob, as needed, so that the deviation meter reading is between 0.65 kHz and 0.75 kHz.
7. Press the "Left" **DIAL** knob momentarily to switch the "Main" band to be the "Left" band.
8. Tune the "Left" band frequency to 52.050 MHz, then activate the CTCSS Encoder with a 100 Hz tone, and set the Transmit Power Level to "LOW."
9. Press the **PTT** switch to activate the transmitter (with no microphone input), and adjust the "Right" **DIAL** knob, as needed, so that the deviation meter reading is between 0.65 kHz and 0.75 kHz.
10. Tune the "Left" band frequency to 29.050 MHz, then activate the CTCSS Encoder with a 100 Hz tone, and set the Transmit Power Level to "LOW."
11. Press the **PTT** switch to activate the transmitter (with no microphone input), and adjust the "Right" **DIAL** knob, as needed, so that the deviation meter reading is between 0.35 kHz and 0.45 kHz.

## *S-Meter Sensitivity (A-7 SM L/V)*

1. Inject a 440.050 MHz signal at a level of –5 dBμ from the RF Signal Generator.
2. Press the "Sub" band **DIAL** knob momentarily, if needed, to switch the "Main" band to be the "Right" band.
3. Tune the "Right" band frequency to 440.050 MHz.
4. Press and hold in the in the "Left" **DIAL** knob to set the Alignment parameter to "**A-7 SM L/V**."
5. Press the "Left" band [**LOW**] key, then adjust the "Left" **DIAL** knob, as needed, so that the S-meter deflects 1 dot.
6. Increase the RF Signal Generator output level to +23 dBμ.
7. Press the "Left" band [**V/M**] key, then adjust the "Left" **DIAL** knob, as needed, so that the S-meter deflects full scale.
8. Tune the "Right" band frequency to 146.050 MHz.
9. Inject a 146.050 MHz signal at a level of –5 dBμ from the RF Signal Generator.
10. Press the "Left" band [**LOW**] key, then adjust the "Left" **DIAL** knob, as needed, so that the S-meter deflects 1 dot.
11. Increase the RF Signal Generator output level to +23 dBμ.
12. Press the "Left" band [**V/M**] key, then adjust the "Left" **DIAL** knob, as needed, so that the S-meter deflects full scale.
13. Press the "Sub" band **DIAL** knob momentarily, if needed, to switch the "Main" band to be the "Left" band.
14. Tune the "Left" band frequency to 440.050 MHz.
15. Inject a 440.050 MHz signal at a level of –5 dBμ from the RF Signal Generator.
16. Press the "Left" band [**LOW**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects 1 dot.
17. Increase the RF Signal Generator output level to +23 dBμ.
18. Press the "Left" band [**V/M**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects full scale.
19. Tune the "Left" band frequency to 146.050 MHz.
20. Inject a 146.050 MHz signal at a level of –5 dBμ from the RF Signal Generator.
21. Press the "Left" band [**LOW**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects 1 dot.
22. Increase the RF Signal Generator output level to +23 dBμ.
23. Press the "Left" band [**V/M**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects full scale.
24. Tune the "Left" band frequency to 52.050 MHz.
25. Inject a 52.050 MHz signal at a level of –5 dBμ from the RF Signal Generator.
26. Press the "Left" band [**LOW**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects 1 dot.
27. Increase the RF Signal Generator output level to +23 dBμ.
28. Press the "Left" band [**V/M**] key then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects full scale.
29. Tune the "Left" band frequency to 29.050 MHz.
30. Inject a 146.050 MHz signal at a level of –5 dBμ from the RF Signal Generator.
31. Press the "Left" band [**LOW**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects 1 dot.
32. Increase the RF Signal Generator output level to +23 dBμ.

33. Press the "Left" band [**V/M**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects full scale.
34. Tune the "Left" band frequency to 868.95 MHz.
35. Inject an 868.95 MHz signal at a level of –3 dBµ from the RF Signal Generator.
36. Press the "Left" band [**LOW**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects 1 dot.
37. Increase the RF Signal Generator output level to +31 dBµ.
38. Press the "Left" band [**V/M**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects full scale.
39. Tune the "Left" band frequency to 350.050 MHz.
40. Inject a 350.050 MHz signal at a level of –5 dBµ from the RF Signal Generator.
41. Press the "Left" band [**LOW**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects 1 dot.
42. Increase the RF Signal Generator output level to +23 dBµ.
43. Press the "Left" band [**V/M**] key, then adjust the "Right" **DIAL** knob, as needed, so that the S-meter deflects full scale.

## *DC Voltmeter (A-8 BAT SC)*

1. Set the power supply voltage to 13.8 VDC.
2. Press and hold in the in the "Sub" band **DIAL** knob to set the Alignment parameter to "**A-8 BAT SC**."
3. Press the "Left" band [**SCN**] key.

To close the Alignment mode, just press and hold in the "Right" **VOL** knob for 2 seconds (to turn the power off). The next time the transceiver is turned on, normal operation may resume.

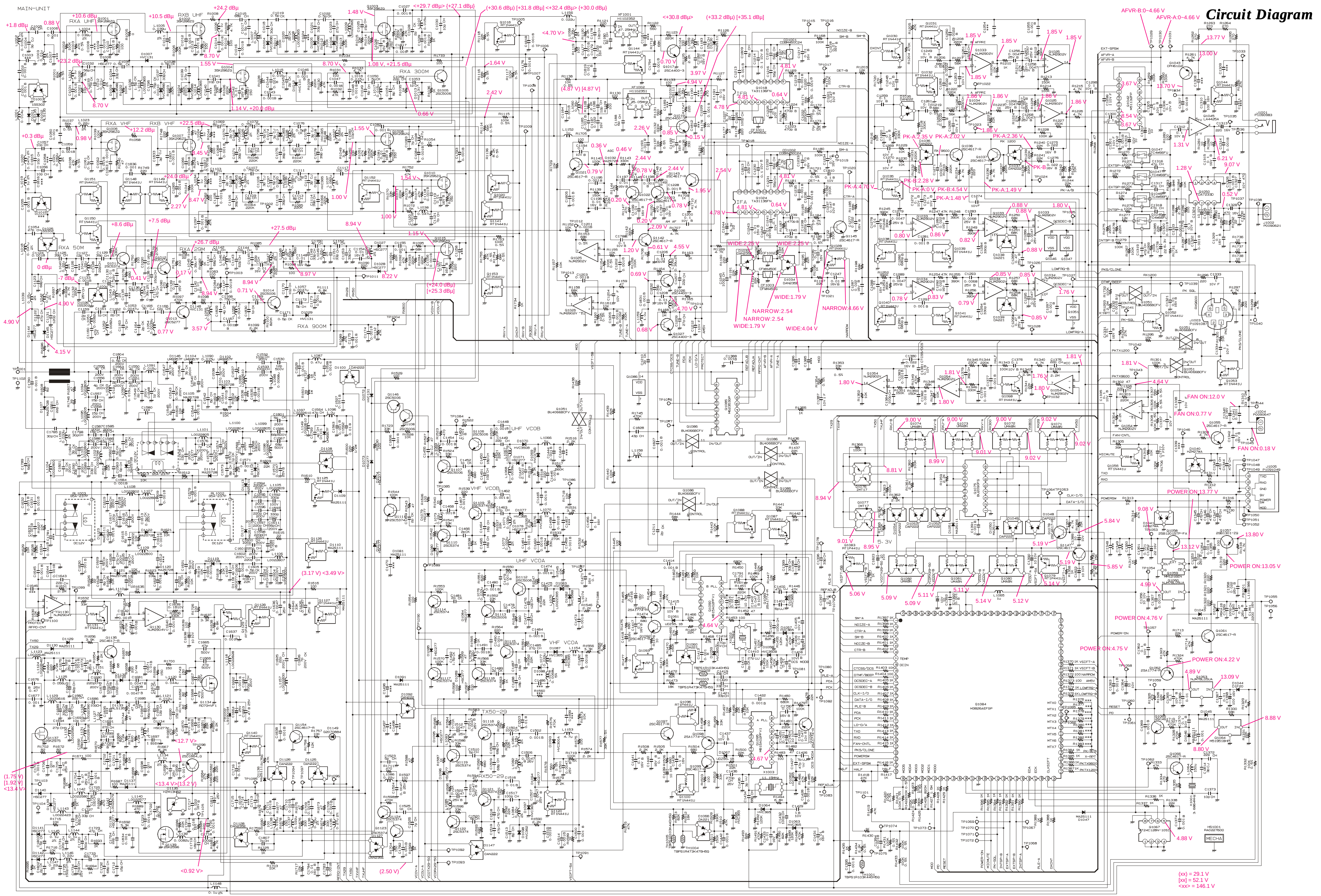
**Important Note!**

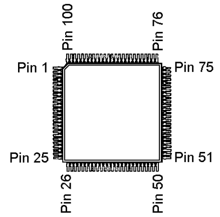
The "A-3 PRO" (TX Protector) parameter is only used at the factory.
***Do not adjust this parameter's values.***

# Note

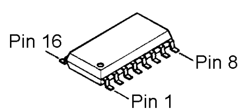
# MAIN Unit

## *Circuit Diagram*

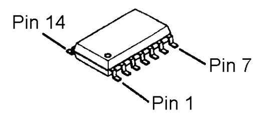




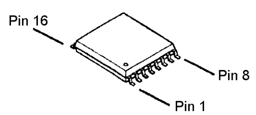
M3826AEFGP
(Q1084)



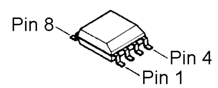
M51132FP
(Q1042)



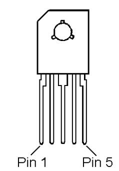
BU4066BCFV
(Q1051)
NJM2902V
(Q1033, 1054)



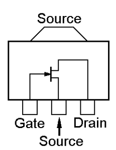
BU2090FS
(Q1042)
MB15A02PFV1
(Q1090)
TA31136FN
(Q1018, 1024)



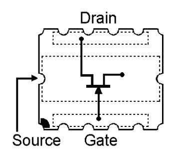
TDA7233D
(Q1050)



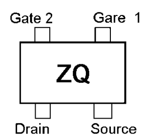
LA4425A
(Q1045)



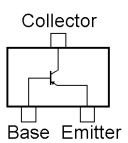
2SK2596BX (BX)
(Q1039)



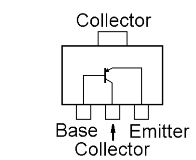
2SK2975
(Q1037)



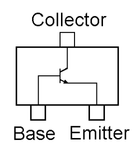
3SK296ZQ
(Q1004)



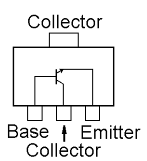
2SA1774 (FR)
(Q1089, 1091)



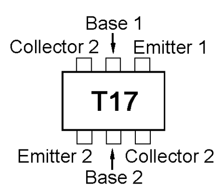
2SB1301 (ZQ)
(Q1057)



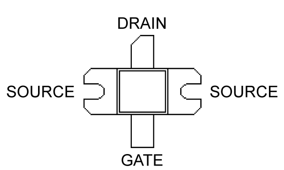
2SC4400 (RT4)
(Q1017)
2SC4617 (BR)
(Q1022, 1036, 1037,
1062, 1092, 1147)
2SC5006 (24)
(Q1005, 1014, 1108,
1112, 1113, 1146)
2SC5277 (D2)
(Q1013)
2SC5374 (NA)
(Q1012, 1111, 1114,
1115, 1116, 1117,
1123, 1124)



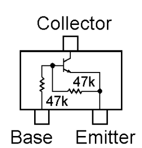
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(Q1038)



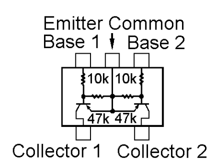
IMT17 (T17)
(Q1076, 1077)



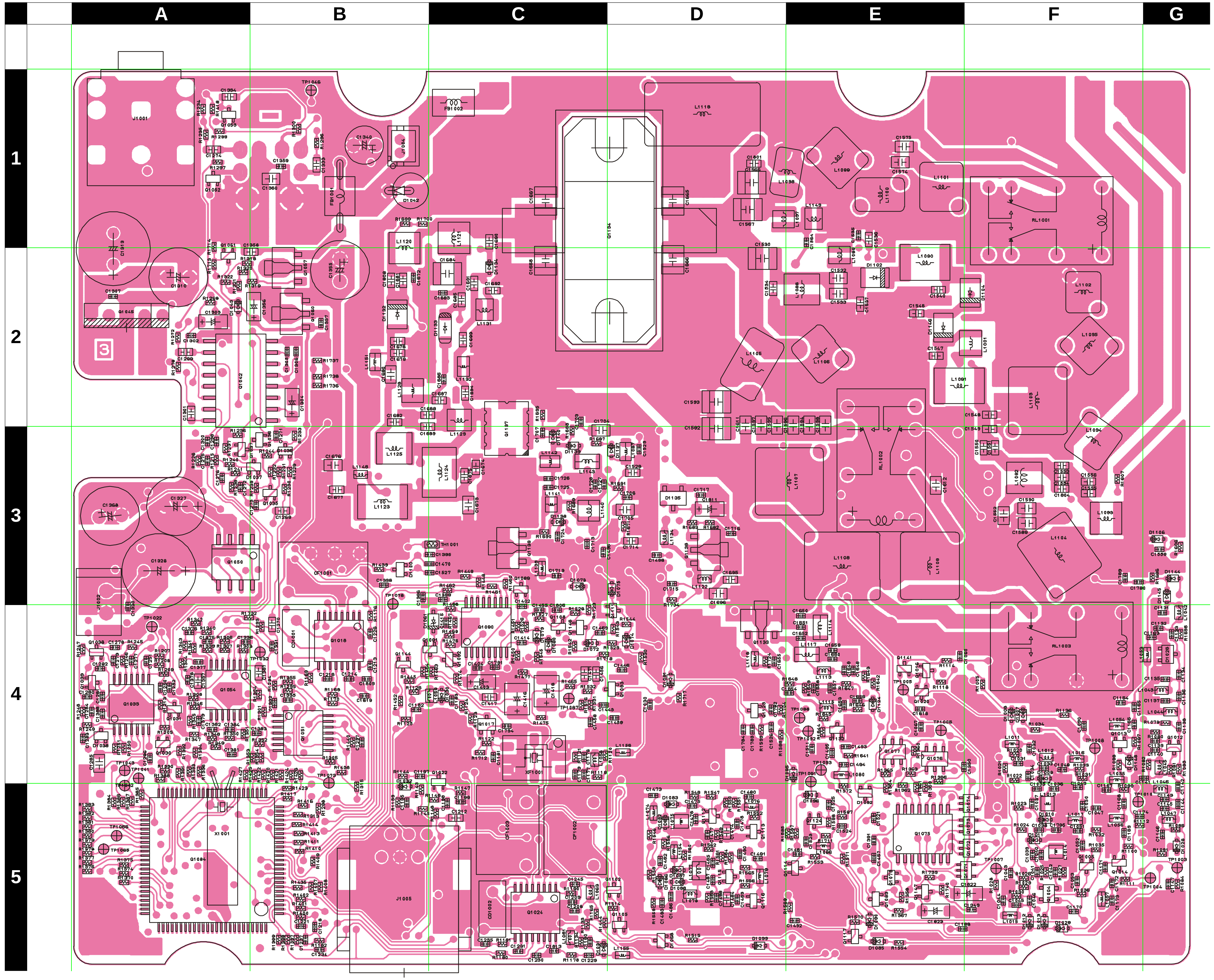
RD70HVF1
(Q1134)



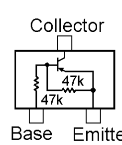
RT1N4441U (N3)
(Q1016, 1020, 1030,
1031, 1035, 1038,
1039, 1052, 1053,
1141, 1144)



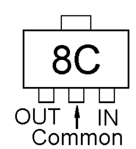
UMA8N (A8)
(Q1071, 1072,
1073, 1074)



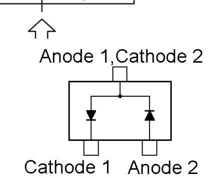

Side A



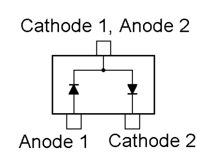
RT1P441U (P3)
(Q1079, 1083)



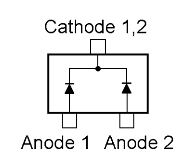
NJM78L05 (8C)
(Q1060)



1SS302 (C3)
(D1026)

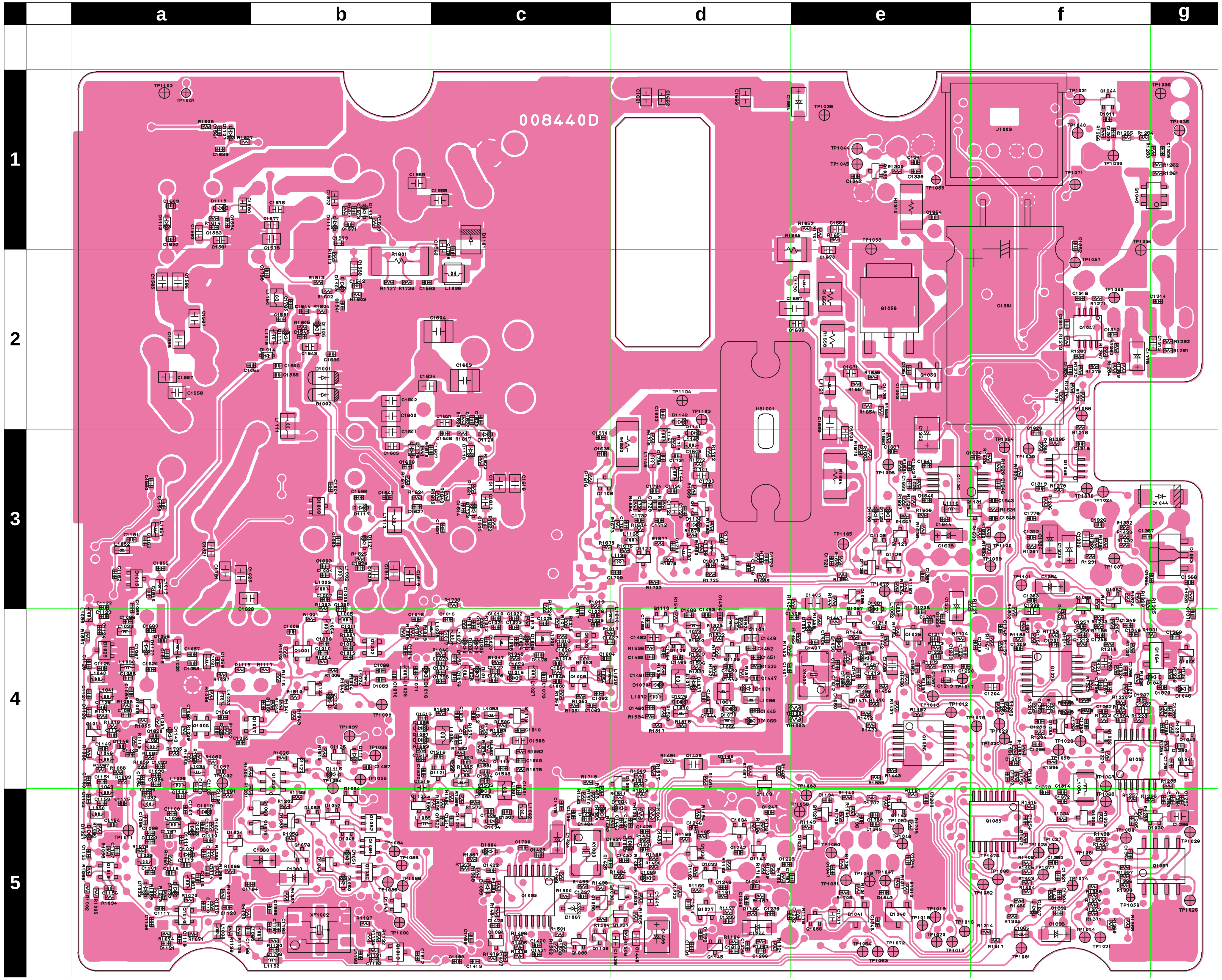


DA221 (K)
(D1038)

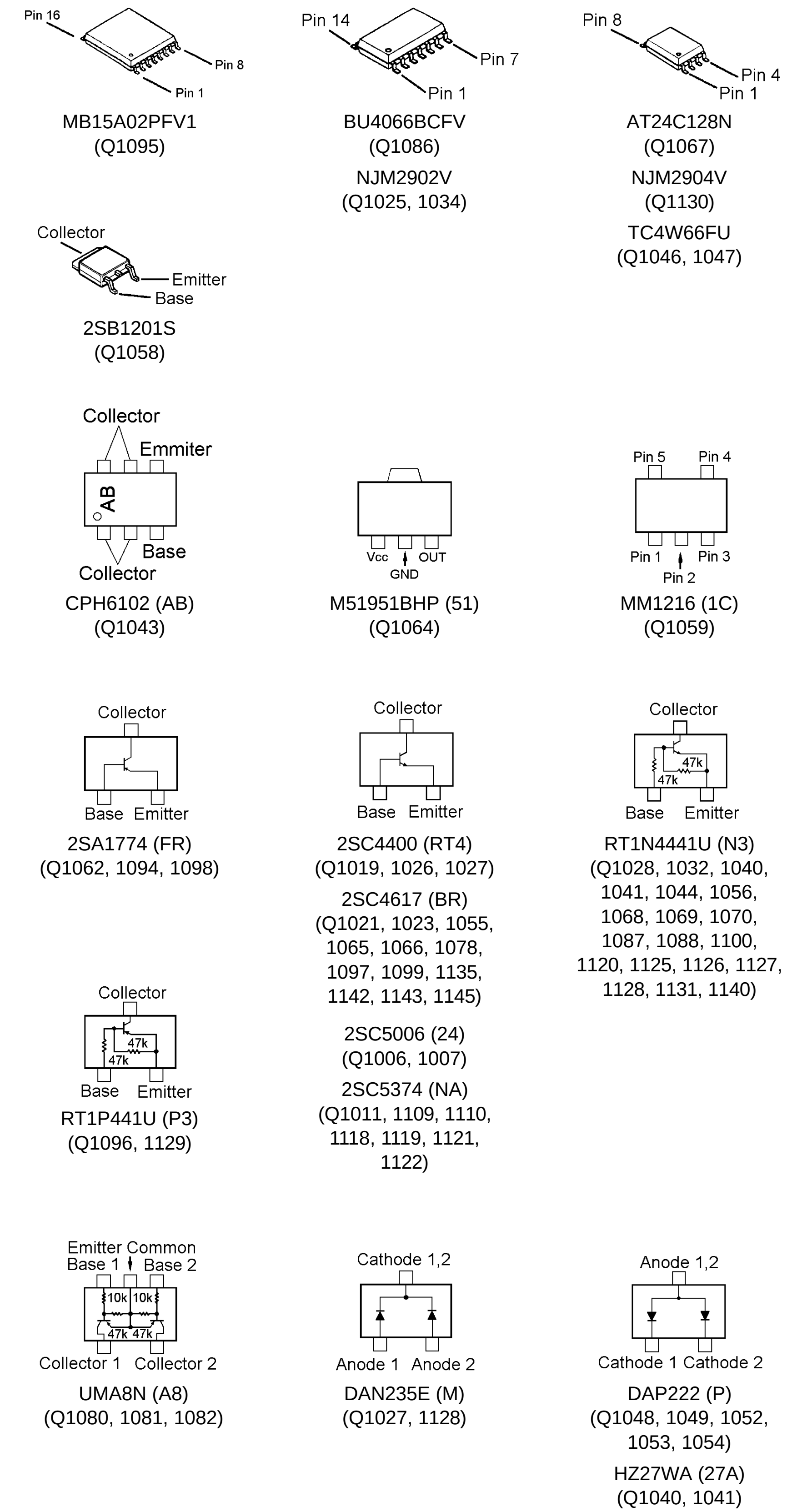


DAN222 (N)
(D1036, 1037,
1068, 1092, 1100)

# MAIN Unit




Side B



| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| | PCB with Component | | | | | CS1769004 | TYP: A2U | DST: USA | | |
| | | | | | | CS1769005 | TYP: A1 | DST: EXP | | |
| | | | | | | CS1769006 | TYP: A2 | DST: EXP | | |
| | | | | | | CS1769007 | TYP: A3 | DST: EXP | | |
| | | | | | | CS1769008 | TYP: B1 | DST: EXP | | |
| | | | | | | CS1769009 | TYP: B2 | DST: EXP | | |
| | | | | | | CS1769010 | TYP: B3 | DST: EXP | | |
| | | | | | | CS1769011 | TYP: C1 | DST: EXP | | |
| | | | | | | CS1769012 | TYP: C2 | DST: EXP | | |
| | | | | | | CS1769013 | TYP: C3 | DST: EXP | | |
| | | | | | | CS1769014 | TYP: D1 | DST: EXP | | |
| | | | | | | CS1769015 | TYP: D2 | DST: EXP | | |
| | | | | | | CS1769016 | TYP: B1G | DST: FRG | | |
| | | | | | | CS1769017 | TYP: B2G | DST: FRG | | |
| | Printed Circuit Board | | | | AH008M000 | FR008440D | | 1- | | |
| C 1001 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b3 |
| C 1002 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b3 |
| C 1004 | CHIP CAP. | 3pF | 50V | CJ | GRM36CJ030B50PT | K22178290 | | 1- | B | b3 |
| C 1005 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | b3 |
| C 1006 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b3 |
| C 1009 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b4 |
| C 1010 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b4 |
| C 1012 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b4 |
| C 1013 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b4 |
| C 1014 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b4 |
| C 1015 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | B | c4 |
| C 1016 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b4 |
| C 1017 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | c4 |
| C 1018 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | c4 |
| C 1019 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | B | c4 |
| C 1020 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | c4 |
| C 1021 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | c4 |
| C 1022 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | B | c4 |
| C 1023 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | c4 |
| C 1025 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | B | c4 |
| C 1026 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | c4 |
| C 1027 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1028 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | c4 |
| C 1029 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1030 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | A | D4 |
| C 1031 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F4 |
| C 1032 | CHIP CAP. | 56pF | 50V | CH | GRM36CH560J50PT | K22178230 | | 1- | A | F4 |
| C 1033 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | A | F4 |
| C 1034 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | A | F4 |
| C 1035 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | A | F5 |
| C 1036 | CHIP CAP. | 1.5pF | 50V | CK | GRM36CK1R5B50PT | K22178288 | | 1- | A | F5 |
| C 1037 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | A | F5 |
| C 1038 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | A | F5 |
| C 1039 | CHIP CAP. | 27pF | 50V | CH | GRM36CH270J50PT | K22178222 | | 1- | A | F5 |
| C 1041 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | A | F5 |
| C 1042 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | F5 |
| C 1043 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F5 |
| C 1044 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F5 |
| C 1045 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | A | F5 |
| C 1046 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F5 |
| C 1047 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F5 |
| C 1048 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F4 |
| C 1049 | CHIP CAP. | 6pF | 50V | CH | GRM36CH060B50PT | K22178293 | | 1- | A | F5 |
| C 1050 | CHIP CAP. | 1.5pF | 50V | CK | GRM36CK1R5B50PT | K22178288 | | 1- | A | F5 |
| C 1051 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | A | F5 |
| C 1052 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | A | F5 |
| C 1053 | CHIP CAP. | 1pF | 50V | CK | GRM36CK010B50PT | K22178287 | | 1- | A | F5 |
| C 1054 | CHIP CAP. | 27pF | 50V | CH | GRM36CH270J50PT | K22178222 | | 1- | B | a2 |
| C 1055 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a3 |
| C 1056 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | B | a4 |
| C 1057 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | B | a4 |
| C 1059 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1060 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | E4 |
| C 1061 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | a4 |
| C 1062 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1063 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1065 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1066 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b4 |
| C 1067 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | E4 |
| C 1068 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b4 |
| C 1069 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | B | b4 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1070 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | b4 |
| C 1071 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | b4 |
| C 1072 | CHIP CAP. | 0.75pF | 50V | CK | GRM36CKR75B50PT | K22178286 | | 1- | B | c4 |
| C 1073 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | B | c4 |
| C 1074 | CHIP CAP. | 3pF | 50V | CJ | GRM36CJ030B50PT | K22178290 | | 1- | B | c4 |
| C 1075 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | c4 |
| C 1076 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | B | c4 |
| C 1077 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | B | c4 |
| C 1078 | CHIP CAP. | 3pF | 50V | CJ | GRM36CJ030B50PT | K22178290 | | 1- | B | c4 |
| C 1079 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | c4 |
| C 1080 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | B | c4 |
| C 1081 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | c4 |
| C 1082 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1083 | CHIP CAP. | 7pF | 50V | CH | GRM36CH070B50PT | K22178294 | | 1- | B | c4 |
| C 1084 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1090 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | F4 |
| C 1097 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1102 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1103 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | B | a4 |
| C 1104 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | a5 |
| C 1105 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1106 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | a5 |
| C 1107 | CHIP CAP. | 0.75pF | 50V | CK | GRM36CKR75B50PT | K22178286 | | 1- | B | a5 |
| C 1108 | CHIP CAP. | 3pF | 50V | CJ | GRM36CJ030B50PT | K22178290 | | 1- | B | a5 |
| C 1109 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | B | a5 |
| C 1110 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | a5 |
| C 1111 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | B | a5 |
| C 1112 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | a5 |
| C 1113 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | B | a5 |
| C 1114 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | a5 |
| C 1115 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a5 |
| C 1116 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a5 |
| C 1117 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | a5 |
| C 1118 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a5 |
| C 1119 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a5 |
| C 1120 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a5 |
| C 1121 | CHIP CAP. | 7pF | 50V | CH | GRM36CH070B50PT | K22178294 | | 1- | B | a5 |
| C 1122 | CHIP CAP. | 68pF | 50V | CH | GRM36CH680J50PT | K22178232 | | 1- | B | a3 |
| C 1123 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | a4 |
| C 1124 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1125 | CHIP CAP. | 27pF | 50V | CH | GRM36CH270J50PT | K22178222 | | 1- | B | a4 |
| C 1126 | CHIP CAP. | 12pF | 50V | CH | GRM36CH120J50PT | K22178214 | | 1- | B | a4 |
| C 1127 | CHIP CAP. | 9pF | 50V | CH | GRM36CH090B50PT | K22178296 | | 1- | B | a4 |
| C 1128 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | B | a4 |
| C 1129 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | a4 |
| C 1130 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a4 |
| C 1131 | CHIP CAP. | 120pF | 50V | CH | GRM36CH121J50PT | K22178238 | | 1- | A | G4 |
| C 1132 | CHIP CAP. | 220pF | 25V | CH | GRM36CH221J25PT | K22148203 | | 1- | A | G4 |
| C 1133 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | G4 |
| C 1134 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | A | G4 |
| C 1136 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | A | G4 |
| C 1137 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | A | G4 |
| C 1138 | CHIP CAP. | 150pF | 50V | CH | GRM36CH151J50PT | K22178240 | | 1- | A | G4 |
| C 1139 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | G4 |
| C 1140 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | G4 |
| C 1141 | CHIP CAP. | 68pF | 50V | CH | GRM36CH680J50PT | K22178232 | | 1- | A | F4 |
| C 1142 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | A | G5 |
| C 1143 | CHIP CAP. | 62pF | 50V | CH | GRM36CH620J50PT | K22178231 | | 1- | A | G5 |
| C 1144 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | A | G5 |
| C 1145 | CHIP CAP. | 62pF | 50V | CH | GRM36CH620J50PT | K22178231 | | 1- | A | G5 |
| C 1146 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | G5 |
| C 1147 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | G5 |
| C 1148 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a4 |
| C 1149 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | a4 |
| C 1150 | CHIP CAP. | 4pF | 50V | CH | GRM36CH040B50PT | K22178291 | | 1- | B | a4 |
| C 1151 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | a4 |
| C 1152 | CHIP CAP. | 4pF | 50V | CH | GRM36CH040B50PT | K22178291 | | 1- | B | a5 |
| C 1153 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | a5 |
| C 1154 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a5 |
| C 1155 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a5 |
| C 1156 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a5 |
| C 1157 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a5 |
| C 1159 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | a3 |
| C 1160 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | a3 |
| C 1161 | CHIP CAP. | 1pF | 50V | CK | GRM36CK010B50PT | K22178287 | | 1- | B | a3 |
| C 1162 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | a3 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1163 | CHIP CAP. | 7pF | 50V | CH | GRM36CH070B50PT | K22178294 | | 1- | A | G4 |
| C 1164 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | A | F4 |
| C 1165 | CHIP CAP. | 3pF | 50V | CJ | GRM36CJ030B50PT | K22178290 | | 1- | A | F4 |
| C 1166 | CHIP CAP. | 12pF | 50V | CH | GRM36CH120J50PT | K22178214 | | 1- | A | F4 |
| C 1167 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F5 |
| C 1168 | CHIP CAP. | 0.75pF | 50V | CK | GRM36CKR75B50PT | K22178286 | | 1- | A | F5 |
| C 1169 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | A | F5 |
| C 1170 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | A | F5 |
| C 1171 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | A | F5 |
| C 1172 | CHIP CAP. | 5pF | 50V | CH | GRM36CH050B50PT | K22178292 | | 1- | A | F5 |
| C 1173 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F5 |
| C 1174 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F5 |
| C 1175 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a5 |
| C 1176 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1177 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C4 |
| C 1178 | CHIP CAP. | 12pF | 50V | CH | GRM36CH120J50PT | K22178214 | | 1- | A | C4 |
| C 1179 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | A | C4 |
| C 1180 | CHIP CAP. | 6pF | 50V | CH | GRM36CH060B50PT | K22178293 | | 1- | B | d4 |
| C 1182 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | B4 |
| C 1183 | CHIP CAP. | 15pF | 50V | CH | GRM36CH150J50PT | K22178216 | | 1- | A | C4 |
| C 1184 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a5 |
| C 1185 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b5 |
| C 1186 | CHIP CAP. | 12pF | 50V | CH | GRM36CH120J50PT | K22178214 | | 1- | B | a5 |
| C 1187 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | B | b5 |
| C 1188 | CHIP CAP. | 6pF | 50V | CH | GRM36CH060B50PT | K22178293 | | 1- | A | E5 |
| C 1191 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103M50PT | K22174823 | | 1- | B | d5 |
| C 1192 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | b5 |
| C 1193 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c5 |
| C 1194 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | e5 |
| C 1195 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B5 |
| C 1196 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e5 |
| C 1197 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | B4 |
| C 1198 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C5 |
| C 1199 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | C5 |
| C 1200 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | e5 |
| C 1201 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f4 |
| C 1202 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f4 |
| C 1203 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f4 |
| C 1204 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | B | f4 |
| C 1205 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f4 |
| C 1206 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e4 |
| C 1207 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | B | e4 |
| C 1208 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | C5 |
| C 1209 | CHIP CAP. | 27pF | 50V | CH | GRM36CH270J50PT | K22178222 | | 1- | A | C5 |
| C 1210 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | B | e4 |
| C 1211 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | d5 |
| C 1212 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | C5 |
| C 1213 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B4 |
| C 1214 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | B4 |
| C 1215 | CHIP CAP. | 56pF | 50V | CH | GRM36CH560J50PT | K22178230 | | 1- | B | e4 |
| C 1216 | CHIP CAP. | 56pF | 50V | CH | GRM36CH560J50PT | K22178230 | | 1- | A | B4 |
| C 1217 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e4 |
| C 1218 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | B5 |
| C 1219 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e4 |
| C 1220 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e4 |
| C 1221 | CHIP CAP. | 0.047uF | 10V | B | GRM36B473K10PT | K22108801 | | 1- | A | B5 |
| C 1222 | CHIP CAP. | 220pF | 25V | CH | GRM36CH221J25PT | K22148203 | | 1- | B | e4 |
| C 1223 | CHIP CAP. | 470pF | 50V | B | GRM36B471K50PT | K22178805 | | 1- | B | e4 |
| C 1224 | CHIP CAP. | 470pF | 50V | B | GRM36B471K50PT | K22178805 | | 1- | B | e4 |
| C 1225 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | e4 |
| C 1226 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | A | B4 |
| C 1227 | CHIP TA.CAP. | 22uF | 6.3V | | TEMSVA0J226M-8R | K78080047 | | 1- | B | e3 |
| C 1228 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d5 |
| C 1229 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C5 |
| C 1230 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | C5 |
| C 1231 | CHIP CAP. | 56pF | 50V | CH | GRM36CH560J50PT | K22178230 | | 1- | A | C5 |
| C 1232 | CHIP CAP. | 56pF | 50V | CH | GRM36CH560J50PT | K22178230 | | 1- | B | d5 |
| C 1233 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d5 |
| C 1234 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | B5 |
| C 1235 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C5 |
| C 1236 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d5 |
| C 1237 | CHIP CAP. | 0.047uF | 10V | B | GRM36B473K10PT | K22108801 | | 1- | A | B5 |
| C 1238 | CHIP CAP. | 220pF | 25V | CH | GRM36CH221J25PT | K22148203 | | 1- | B | d5 |
| C 1239 | CHIP CAP. | 470pF | 50V | B | GRM36B471K50PT | K22178805 | | 1- | B | d5 |
| C 1240 | CHIP CAP. | 470pF | 50V | B | GRM36B471K50PT | K22178805 | | 1- | B | d5 |
| C 1241 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | d5 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1242 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d5 |
| C 1243 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d5 |
| C 1244 | CHIP TA.CAP. | 22uF | 6.3V | | TEMSVA0J226M-8R | K78080047 | | 1- | B | d5 |
| C 1245 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | A | C5 |
| C 1246 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d5 |
| C 1247 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d5 |
| C 1248 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f4 |
| C 1249 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f4 |
| C 1250 | CHIP CAP. | 0.0022uF | 50V | B | GRM36B222K50PT | K22178813 | | 1- | A | A4 |
| C 1251 | CHIP CAP. | 150pF | 50V | CH | GRM36CH151J50PT | K22178240 | | 1- | A | A4 |
| C 1252 | CHIP CAP. | 0.0022uF | 50V | B | GRM36B222K50PT | K22178813 | | 1- | A | A4 |
| C 1253 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | B | f4 |
| C 1255 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f4 |
| C 1256 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | f4 |
| C 1257 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | f4 |
| C 1258 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | f4 |
| C 1259 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f4 |
| C 1260 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f4 |
| C 1261 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f4 |
| C 1262 | CHIP CAP. | 0.0022uF | 50V | B | GRM36B222K50PT | K22178813 | | 1- | B | f4 |
| C 1263 | CHIP CAP. | 0.0022uF | 50V | B | GRM36B222K50PT | K22178813 | | 1- | B | f4 |
| C 1264 | CHIP CAP. | 150pF | 50V | CH | GRM36CH151J50PT | K22178240 | | 1- | B | f4 |
| C 1265 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | B | f4 |
| C 1266 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | f4 |
| C 1267 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | f4 |
| C 1268 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | f4 |
| C 1269 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | B3 |
| C 1270 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | B4 |
| C 1271 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | A | B3 |
| C 1272 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | A3 |
| C 1273 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | B3 |
| C 1274 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | A1 |
| C 1275 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | A | A3 |
| C 1276 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | A | A3 |
| C 1277 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | A | A4 |
| C 1278 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | A4 |
| C 1279 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | A | A4 |
| C 1280 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | A | A4 |
| C 1281 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | A4 |
| C 1282 | CHIP CAP. | 680pF | 50V | B | GRM36B681K50PT | K22178807 | | 1- | A | A4 |
| C 1283 | CHIP CAP. | 0.0068uF | 25V | B | GRM36B682J25PT | K22148803 | | 1- | A | A4 |
| C 1284 | CHIP CAP. | 330pF | 50V | B | GRM36B331K50PT | K22178803 | | 1- | A | A4 |
| C 1285 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | A | A4 |
| C 1286 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | A | A4 |
| C 1287 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | B | f4 |
| C 1288 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | g4 |
| C 1289 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | g4 |
| C 1290 | CHIP CAP. | 680pF | 50V | B | GRM36B681K50PT | K22178807 | | 1- | B | g4 |
| C 1291 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g4 |
| C 1292 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | B | g5 |
| C 1293 | CHIP CAP. | 0.0068uF | 25V | B | GRM36B682J25PT | K22148803 | | 1- | B | g5 |
| C 1294 | CHIP CAP. | 330pF | 50V | B | GRM36B331K50PT | K22178803 | | 1- | B | g5 |
| C 1295 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | f5 |
| C 1296 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | B | g5 |
| C 1297 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B4 |
| C 1298 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | A3 |
| C 1299 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | A2 |
| C 1300 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | A3 |
| C 1301 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | A2 |
| C 1302 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | A2 |
| C 1303 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | A | A2 |
| C 1304 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | A | B2 |
| C 1305 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | B2 |
| C 1306 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | B2 |
| C 1307 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | A2 |
| C 1310 | AL.ELECTRO.CAP. | 100uF | 16V | | 16V101M6X7TR2 | K46120007 | | 1- | A | A2 |
| C 1312 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f2 |
| C 1313 | AL.ELECTRO.CAP. | 220uF | 16V | | RE2-16V221M 220UF | K40129048 | | 1- | A | A2 |
| C 1314 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g2 |
| C 1315 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | B | f2 |
| C 1316 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | f2 |
| C 1317 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | f2 |
| C 1318 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | f3 |
| C 1319 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | f3 |
| C 1320 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f2 |
| C 1321 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | f5 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1322 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f3 |
| C 1323 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f3 |
| C 1324 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | B | f3 |
| C 1325 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | B | f3 |
| C 1326 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f3 |
| C 1327 | AL.ELECTRO.CAP. | 470uF | 10V | | SMG10VB470M 470UF | K40109040 | | 1- | A | A3 |
| C 1328 | AL.ELECTRO.CAP. | 470uF | 16V | | RE3-16V471M 470UF | K40129066 | | 1- | A | A3 |
| C 1329 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | B | f3 |
| C 1331 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | B4 |
| C 1332 | CHIP CAP. | 0.0015uF | 50V | B | GRM36B152K50PT | K22178811 | | 1- | A | B4 |
| C 1333 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | B1 |
| C 1334 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | A1 |
| C 1335 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | B4 |
| C 1336 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | A | A4 |
| C 1337 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | A4 |
| C 1338 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | B | f4 |
| C 1340 | AL.ELECTRO.CAP. | 10uF | 16V | | 16V100M4X7TR2 | K46120004 | | 1- | A | B1 |
| C 1341 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e1 |
| C 1342 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e1 |
| C 1343 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | e5 |
| C 1344 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | e5 |
| C 1345 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | e5 |
| C 1346 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | e5 |
| C 1347 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | e5 |
| C 1351 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e2 |
| C 1352 | CHIP TA.CAP. | 22uF | 16V | | TEMSVB21C226M-8R | K78120028 | | 1- | B | e3 |
| C 1353 | CHIP CAP. | 0.022uF | 25V | B | GRM39B223K25PT | K22144807 | | 1- | B | e2 |
| C 1354 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e1 |
| C 1355 | AL.ELECTRO.CAP. | 100uF | 16V | | 16V101M6X7TR2 | K46120007 | | 1- | A | B2 |
| C 1356 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | A | B2 |
| C 1357 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B2 |
| C 1358 | CHIP CAP. | 0.022uF | 25V | B | GRM39B223K25PT | K22144807 | | 1- | A | A2 |
| C 1359 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | A | B1 |
| C 1360 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | A | B1 |
| C 1361 | AL.ELECTRO.CAP. | 2200uF | 16V | | RE3-16V222M 2200UF | K40129064 | | 1- | B | f1 |
| C 1362 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f1 |
| C 1363 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f3 |
| C 1364 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | B | f3 |
| C 1365 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f3 |
| C 1366 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | g3 |
| C 1367 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | f3 |
| C 1368 | AL.ELECTRO.CAP. | 100uF | 16V | | 16V101M6X7TR2 | K46120007 | | 1- | A | A3 |
| C 1369 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g4 |
| C 1370 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | g4 |
| C 1371 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g4 |
| C 1372 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | B | f5 |
| C 1373 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | B | f5 |
| C 1374 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f5 |
| C 1375 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | A | A4 |
| C 1376 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | A4 |
| C 1377 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | A4 |
| C 1378 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | A4 |
| C 1379 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | A | A4 |
| C 1380 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | B | f5 |
| C 1381 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | A4 |
| C 1382 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | A4 |
| C 1383 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B4 |
| C 1384 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | A | A4 |
| C 1387 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | B4 |
| C 1388 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | A4 |
| C 1389 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | B | b5 |
| C 1390 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | B | b5 |
| C 1391 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | E5 |
| C 1392 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f5 |
| C 1393 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | B | f5 |
| C 1394 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f5 |
| C 1395 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B3 |
| C 1396 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | A | B3 |
| C 1397 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e4 |
| C 1398 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | A | B3 |
| C 1399 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | A | C3 |
| C 1400 | CHIP CAP. | 47pF | 50V | UJ | GRP1553U1H470JZ01E | K22178319 | | 1- | B | e4 |
| C 1401 | CHIP CAP. | 6pF | 50V | UJ | GRP1553U1H6R0DZ01E | K22178307 | | 1- | B | d4 |
| C 1402 | CHIP CAP. | 0.047uF | 10V | B | GRM36B473K10PT | K22108801 | | 1- | A | C3 |
| C 1403 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | A | C4 |
| C 1404 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C4 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1405 | CHIP CAP. | 1uF | 10V | B | GRM40B105K10PT(0.85) | K22100803 | | 1- | B | e3 |
| C 1406 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d4 |
| C 1407 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | e4 |
| C 1408 | CHIP CAP. | 1uF | 10V | B | GRM40B105K10PT(0.85) | K22100803 | | 1- | B | e4 |
| C 1409 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e4 |
| C 1410 | CHIP CAP. | 27pF | 50V | UJ | GRP1553U1H270JZ01E | K22178316 | | 1- | B | e4 |
| C 1411 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | e4 |
| C 1412 | CHIP CAP. | 270pF | 25V | CH | GRM36CH271J25PT | K22148248 | | 1- | B | e4 |
| C 1413 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e4 |
| C 1414 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C4 |
| C 1415 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | A | C4 |
| C 1416 | CHIP TA.CAP. | 10uF | 16V | | TEMSVB21C106M-8R | K78120025 | | 1- | A | C4 |
| C 1417 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | A | C4 |
| C 1418 | CHIP TA.CAP. | 10uF | 16V | | TEMSVB21C106M-8R | K78120025 | | 1- | A | C4 |
| C 1419 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | c5 |
| C 1420 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | c5 |
| C 1421 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | B | c5 |
| C 1422 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c5 |
| C 1423 | CHIP CAP. | 0.047uF | 10V | B | GRM36B473K10PT | K22108801 | | 1- | B | c5 |
| C 1424 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | B | c5 |
| C 1425 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c5 |
| C 1426 | CHIP CAP. | 7pF | 50V | UJ | GRP1553U1H7R0DZ01E | K22178308 | | 1- | B | c5 |
| C 1427 | CHIP CAP. | 47pF | 50V | UJ | GRP1553U1H470JZ01E | K22178319 | | 1- | B | c5 |
| C 1428 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d5 |
| C 1429 | CHIP CAP. | 1uF | 10V | B | GRM40B105K10PT(0.85) | K22100803 | | 1- | B | d4 |
| C 1431 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d5 |
| C 1432 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | d5 |
| C 1433 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d5 |
| C 1434 | CHIP CAP. | 68pF | 50V | CH | GRM36CH680J50PT | K22178232 | | 1- | B | c5 |
| C 1435 | CHIP CAP. | 3pF | 50V | UJ | GRP1553U1H3R0CZ01E | K22178304 | | 1- | B | c5 |
| C 1436 | CHIP CAP. | 270pF | 25V | CH | GRM36CH271J25PT | K22148248 | | 1- | B | c5 |
| C 1437 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | c5 |
| C 1438 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | B | c5 |
| C 1439 | CHIP TA.CAP. | 10uF | 16V | | TEMSVB21C106M-8R | K78120025 | | 1- | B | d5 |
| C 1440 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | B | d5 |
| C 1441 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | B | d5 |
| C 1442 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d5 |
| C 1444 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d4 |
| C 1445 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d4 |
| C 1446 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D4 |
| C 1447 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d4 |
| C 1448 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | B | d4 |
| C 1449 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | B | d4 |
| C 1450 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | B | d4 |
| C 1451 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | B | d4 |
| C 1452 | CHIP CAP. | 1pF | 50V | CK | GRM36CK010B50PT | K22178287 | | 1- | B | d4 |
| C 1453 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d4 |
| C 1454 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d4 |
| C 1455 | CHIP CAP. | 3pF | 50V | CJ | GRM36CJ030B50PT | K22178290 | | 1- | A | C4 |
| C 1456 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | A | C4 |
| C 1458 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C4 |
| C 1459 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D4 |
| C 1460 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d4 |
| C 1461 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d4 |
| C 1462 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | B | d4 |
| C 1463 | CHIP CAP. | 27pF | 50V | CH | GRM36CH270J50PT | K22178222 | | 1- | B | d4 |
| C 1464 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | B | d4 |
| C 1465 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | B | d4 |
| C 1466 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | d4 |
| C 1467 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | E5 |
| C 1468 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d4 |
| C 1469 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | A | C4 |
| C 1471 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | A | C4 |
| C 1473 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D5 |
| C 1474 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | A | D5 |
| C 1475 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | A | D5 |
| C 1476 | CHIP CAP. | 12pF | 50V | CH | GRM36CH120J50PT | K22178214 | | 1- | A | D5 |
| C 1477 | CHIP CAP. | 12pF | 50V | CH | GRM36CH120J50PT | K22178214 | | 1- | A | D5 |
| C 1478 | CHIP CAP. | 1pF | 50V | CK | GRM36CK010B50PT | K22178287 | | 1- | A | D5 |
| C 1479 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c5 |
| C 1480 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D5 |
| C 1481 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | A | E5 |
| C 1482 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D5 |
| C 1483 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D5 |
| C 1484 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | A | D5 |
| C 1485 | CHIP CAP. | 27pF | 50V | CH | GRM36CH270J50PT | K22178222 | | 1- | A | D5 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1486 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D5 |
| C 1487 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | A | D5 |
| C 1488 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | A | D5 |
| C 1489 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | A | D5 |
| C 1490 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D5 |
| C 1491 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D5 |
| C 1492 | CHIP CAP. | 1.5pF | 50V | CK | GRM36CK1R5B50PT | K22178288 | | 1- | A | E5 |
| C 1493 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | E4 |
| C 1500 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1501 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | c4 |
| C 1502 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1503 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103M50PT | K22174823 | | 1- | B | c4 |
| C 1504 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | c4 |
| C 1506 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | c5 |
| C 1507 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | c5 |
| C 1508 | CHIP CAP. | 68pF | 50V | CH | GRM36CH680J50PT | K22178232 | | 1- | B | c4 |
| C 1509 | CHIP CAP. | 68pF | 50V | CH | GRM36CH680J50PT | K22178232 | | 1- | B | c4 |
| C 1510 | CHIP CAP. | 5pF | 50V | CH | GRM36CH050B50PT | K22178292 | | 1- | B | c4 |
| C 1511 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | A | E4 |
| C 1512 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | c4 |
| C 1513 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | B | b4 |
| C 1514 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c5 |
| C 1515 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1516 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103M50PT | K22174823 | | 1- | B | b4 |
| C 1517 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | c4 |
| C 1518 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | c4 |
| C 1519 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | b4 |
| C 1520 | CHIP CAP. | 5pF | 50V | CH | GRM36CH050B50PT | K22178292 | | 1- | B | b4 |
| C 1521 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | A | E5 |
| C 1522 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | c5 |
| C 1523 | CHIP CAP. | 5pF | 50V | CH | GRM36CH050C50PT | K22178207 | | 1- | A | E5 |
| C 1524 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | A | E5 |
| C 1525 | CHIP CAP. | 1pF | 50V | CK | GRM36CK010B50PT | K22178287 | | 1- | A | E5 |
| C 1526 | CHIP CAP. | 7pF | 50V | CH | GRM36CH070B50PT | K22178294 | | 1- | A | D4 |
| C 1527 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B3 |
| C 1528 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | A | D3 |
| C 1529 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D3 |
| C 1530 | FILM CAP. | 12pF | 500V | | UC232H0120J-T | K33279020 | | 1- | A | D2 |
| C 1532 | CHIP CAP. | 100pF | 200V | CH | GRM40CH101J200PT | K22230228 | | 1- | A | E2 |
| C 1533 | CHIP CAP. | 100pF | 200V | CH | GRM40CH101J200PT | K22230228 | | 1- | A | E2 |
| C 1535 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | E1 |
| C 1538 | CHIP CAP. | 0.5pF | 200V | CK | GRM1884C2DR50CY21D | K22234201 | | 1- | B | b2 |
| C 1540 | CHIP CAP. | 2pF | 200V | CK | GRM1884C2D2R0CV01D | K22234204 | | 1- | A | E2 |
| C 1541 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b2 |
| C 1542 | CHIP CAP. | 6pF | 50V | CH | GRM36CH060B50PT | K22178293 | | 1- | B | b2 |
| C 1543 | CHIP CAP. | 0.5pF | 200V | CK | GRM1884C2DR50CY21D | K22234201 | | 1- | B | b2 |
| C 1544 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b2 |
| C 1545 | CHIP CAP. | 6pF | 50V | CH | GRM36CH060B50PT | K22178293 | | 1- | B | b2 |
| C 1546 | CHIP CAP. | 3pF | 200V | CJ | GRM1883C2D3R0CV01D | K22234205 | | 1- | A | E2 |
| C 1547 | CHIP CAP. | 4pF | 200V | CH | GRM1882C2D4R0CV01D | K22234206 | | 1- | A | E2 |
| C 1548 | CHIP CAP. | 1pF | 200V | CK | GRM1884C2D1R0CV01D | K22234203 | | 1- | A | F2 |
| C 1549 | CHIP CAP. | 2pF | 200V | CK | GRM1884C2D2R0CV01D | K22234204 | | 1- | A | F3 |
| C 1550 | CHIP CAP. | 4pF | 200V | CH | GRM1882C2D4R0CV01D | K22234206 | | 1- | A | F3 |
| C 1551 | CHIP CAP. | 4pF | 200V | CH | GRM1882C2D4R0CV01D | K22234206 | | 1- | A | F3 |
| C 1553 | CHIP CAP. | 2pF | 200V | CK | GRM1884C2D2R0CV01D | K22234204 | | 1- | A | F3 |
| C 1554 | CHIP CAP. | 2pF | 200V | CK | GRM1884C2D2R0CV01D | K22234204 | | 1- | A | F3 |
| C 1555 | CHIP CAP. | 4pF | 200V | CH | GRM1882C2D4R0CV01D | K22234206 | | 1- | A | F3 |
| C 1556 | CHIP CAP. | 4pF | 200V | CH | GRM1882C2D4R0CV01D | K22234206 | | 1- | A | F3 |
| C 1557 | CHIP CAP. | 15pF | 200V | CH | GRM40CH150J200PT | K22230218 | | 1- | B | a2 |
| C 1558 | CHIP CAP. | 15pF | 200V | CH | GRM40CH150J200PT | K22230218 | | 1- | B | a2 |
| C 1561 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | B | a1 |
| C 1562 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103M50PT | K22174823 | | 1- | B | c1 |
| C 1563 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b2 |
| C 1564 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | A | E1 |
| C 1566 | FILM CAP. | 56pF | 500V | | UC232H0560J-T | K33279035 | | 1- | A | D1 |
| C 1567 | FILM CAP. | 68pF | 500V | | UC232H0680J-T | K33279030 | | 1- | A | D1 |
| C 1568 | CHIP CAP. | 33pF | 200V | CH | GRM40CH330J200PT | K22230222 | | 1- | B | c1 |
| C 1569 | CHIP CAP. | 27pF | 200V | CH | GRM40CH270J200PT | K22230221 | | 1- | B | b1 |
| C 1570 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | c3 |
| C 1571 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b1 |
| C 1572 | CHIP CAP. | 1pF | 200V | CK | GRM1884C2D1R0CV01D | K22234203 | | 1- | B | b1 |
| C 1573 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | B | b1 |
| C 1574 | CHIP CAP. | 22pF | 200V | CH | GRM40CH220J200PT | K22230220 | | 1- | A | E1 |
| C 1575 | CHIP CAP. | 27pF | 200V | CH | GRM40CH270J200PT | K22230221 | | 1- | A | E1 |
| C 1576 | CHIP CAP. | 7pF | 200V | CH | GRM1882C2D7R0DV01D | K22234209 | | 1- | B | b1 |
| C 1577 | CHIP CAP. | 5pF | 200V | CH | GRM1882C2D5R0CV01D | K22234207 | | 1- | B | b1 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1578 | CHIP CAP. | 12pF | 200V | CH | GRM40CH120J200PT | K22230217 | | 1- | B | b1 |
| C 1579 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b1 |
| C 1581 | CHIP CAP. | 3pF | 200V | CJ | GRM1883C2D3R0CV01D | K22234205 | | 1- | B | a1 |
| C 1582 | CHIP CAP. | 0.5pF | 200V | CK | GRM1884C2DR50CY21D | K22234201 | | 1- | B | a1 |
| C 1583 | CHIP CAP. | 6pF | 50V | CH | GRM36CH060B50PT | K22178293 | | 1- | B | a1 |
| C 1584 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a1 |
| C 1585 | CHIP CAP. | 15pF | 200V | CH | GRM40CH150J200PT | K22230218 | | 1- | B | a2 |
| C 1586 | CHIP CAP. | 15pF | 200V | CH | GRM40CH150J200PT | K22230218 | | 1- | B | a2 |
| C 1587 | CHIP CAP. | 15pF | 200V | CH | GRM40CH150J200PT | K22230218 | | 1- | B | a2 |
| C 1588 | CHIP CAP. | 15pF | 200V | CH | GRM40CH150J200PT | K22230218 | | 1- | B | a2 |
| C 1589 | CHIP CAP. | 33pF | 200V | CH | GRM40CH330J200PT | K22230222 | | 1- | A | F3 |
| C 1590 | CHIP CAP. | 33pF | 200V | CH | GRM40CH330J200PT | K22230222 | | 1- | A | F3 |
| C 1592 | FILM CAP. | 330pF | 100V | | UC232A3300J-T | K33209029 | | 1- | A | D3 |
| C 1593 | FILM CAP. | 330pF | 100V | | UC232A3300J-T | K33209029 | | 1- | A | D2 |
| C 1594 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | A | E2 |
| C 1595 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | A | D2 |
| C 1596 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | A | E2 |
| C 1597 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | A | D2 |
| C 1598 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | A | E2 |
| C 1599 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b3 |
| C 1600 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | B | b2 |
| C 1601 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | B | b3 |
| C 1602 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | B | b2 |
| C 1603 | FILM CAP. | 100pF | 500V | | UC232H1000J-T | K33279048 | | 1- | B | c2 |
| C 1604 | FILM CAP. | 330pF | 100V | | UC232A3300J-T | K33209029 | | 1- | B | c2 |
| C 1605 | CHIP CAP. | 0.5pF | 200V | CK | GRM1884C2DR50CY21D | K22234201 | | 1- | B | b3 |
| C 1606 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c3 |
| C 1607 | CHIP CAP. | 4pF | 50V | CH | GRM36CH040B50PT | K22178291 | | 1- | B | b3 |
| C 1608 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b3 |
| C 1609 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a1 |
| C 1611 | CHIP CAP. | 56pF | 200V | CH | GRM40CH560J200PT | K22230225 | | 1- | A | D2 |
| C 1613 | CHIP CAP. | 0.5pF | 200V | CK | GRM1884C2DR50CY21D | K22234201 | | 1- | B | c3 |
| C 1614 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c3 |
| C 1615 | CHIP CAP. | 6pF | 50V | CH | GRM36CH060B50PT | K22178293 | | 1- | B | c3 |
| C 1616 | CHIP CAP. | 100pF | 200V | CH | GRM40CH101J200PT | K22230228 | | 1- | B | c3 |
| C 1617 | CHIP CAP. | 120pF | 200V | CH | GRM40CH121J200PT | K22230229 | | 1- | B | c3 |
| C 1618 | CHIP CAP. | 56pF | 200V | CH | GRM40CH560J200PT | K22230225 | | 1- | B | b3 |
| C 1619 | CHIP CAP. | 56pF | 200V | CH | GRM40CH560J200PT | K22230225 | | 1- | B | b3 |
| C 1620 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1621 | CHIP CAP. | 0.5pF | 200V | CK | GRM1884C2DR50CY21D | K22234201 | | 1- | B | c2 |
| C 1622 | CHIP CAP. | 5pF | 50V | CH | GRM36CH050B50PT | K22178292 | | 1- | B | c2 |
| C 1623 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c2 |
| C 1624 | CHIP CAP. | 27pF | 200V | CH | GRM40CH270J200PT | K22230221 | | 1- | B | b2 |
| C 1625 | CHIP CAP. | 33pF | 200V | CH | GRM40CH330J200PT | K22230222 | | 1- | B | a3 |
| C 1626 | CHIP CAP. | 27pF | 200V | CH | GRM40CH270J200PT | K22230221 | | 1- | B | a3 |
| C 1627 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b3 |
| C 1628 | CHIP CAP. | 8pF | 50V | CH | GRM36CH080B50PT | K22178295 | | 1- | B | b3 |
| C 1629 | CHIP CAP. | 0.5pF | 200V | CK | GRM1884C2DR50CY21D | K22234201 | | 1- | B | b3 |
| C 1630 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a4 |
| C 1631 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c3 |
| C 1632 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a1 |
| C 1633 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a1 |
| C 1634 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e3 |
| C 1635 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | c3 |
| C 1636 | CHIP CAP. | 0.0047uF | 25V | B | GRM36B472K25PT | K22148830 | | 1- | B | b2 |
| C 1637 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e3 |
| C 1638 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | B | e3 |
| C 1639 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | e3 |
| C 1640 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e3 |
| C 1641 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e3 |
| C 1642 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e3 |
| C 1643 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | B | f3 |
| C 1644 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e3 |
| C 1645 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f3 |
| C 1661 | CHIP CAP. | 100pF | 200V | CH | GRM40CH101J200PT | K22230228 | | 1- | B | d1 |
| C 1662 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | B | d1 |
| C 1663 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | B | d1 |
| C 1664 | CHIP TA.CAP. | 1uF | 25V | | TEMSVA1E105M-8R | K78140013 | | 1- | B | e1 |
| C 1665 | FILM CAP. | 47pF | 500V | | UC232H0470J-T | K33279034 | | 1- | A | D1 |
| C 1666 | FILM CAP. | 47pF | 500V | | UC232H0470J-T | K33279034 | | 1- | A | D2 |
| C 1667 | FILM CAP. | 39pF | 500V | | UC232H0390J-T | K33279038 | | 1- | A | C1 |
| C 1668 | FILM CAP. | 47pF | 500V | | UC232H0470J-T | K33279034 | | 1- | A | C2 |
| C 1669 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | B | e1 |
| C 1670 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | B | e1 |
| C 1671 | CHIP CAP. | 0.01uF | 50V | B | GRM39B103M50PT | K22174823 | | 1- | B | e2 |
| C 1672 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | A | B2 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1673 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | A | C3 |
| C 1674 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | A | C3 |
| C 1675 | CHIP CAP. | 0.022uF | 25V | B | GRM39B223K25PT | K22144807 | | 1- | A | C3 |
| C 1676 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | A | B3 |
| C 1677 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | A | B3 |
| C 1678 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | A | B2 |
| C 1679 | CHIP CAP. | 100pF | 50V | CH | GRM39CH101J50PT | K22174235 | | 1- | A | B2 |
| C 1680 | CHIP CAP. | 220pF | 200V | CH | GRM40CH221J200PT | K22230232 | | 1- | A | B2 |
| C 1681 | CHIP CAP. | 0.0047uF | 50V | B | GRM39B472K50PT | K22174833 | | 1- | A | B2 |
| C 1682 | CHIP CAP. | 82pF | 50V | CH | GRM39CH820J50PT | K22174233 | | 1- | A | B2 |
| C 1683 | CHIP CAP. | 12pF | 50V | CH | GRM36CH120J50PT | K22178214 | | 1- | A | C2 |
| C 1684 | FILM CAP. | 56pF | 500V | | UC232H0560J-T | K33279035 | | 1- | A | C2 |
| C 1685 | CHIP CAP. | 470pF | 50V | CH | GRM39CH471J50PT | K22174249 | | 1- | A | C2 |
| C 1686 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | A | C2 |
| C 1687 | CHIP CAP. | 22pF | 50V | CH | GRM39CH220J50PT | K22174219 | | 1- | A | C2 |
| C 1688 | CHIP CAP. | 15pF | 50V | CH | GRM39CH150J50PT | K22174215 | | 1- | A | B2 |
| C 1689 | CHIP CAP. | 33pF | 50V | CH | GRM39CH330J50PT | K22174223 | | 1- | A | B2 |
| C 1690 | CHIP CAP. | 15pF | 50V | CH | GRM39CH150J50PT | K22174215 | | 1- | A | C1 |
| C 1691 | CHIP CAP. | 27pF | 50V | CH | GRM39CH270J50PT | K22174221 | | 1- | A | C2 |
| C 1692 | CHIP CAP. | 39pF | 50V | CH | GRM39CH390J50PT | K22174225 | | 1- | A | C2 |
| C 1693 | CHIP CAP. | 10pF | 50V | CH | GRM39CH100D50PT | K22174211 | | 1- | A | C2 |
| C 1694 | CHIP CAP. | 27pF | 50V | CH | GRM39CH270J50PT | K22174221 | | 1- | A | C2 |
| C 1695 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | A | D3 |
| C 1696 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | A | D3 |
| C 1697 | CHIP CAP. | 1uF | 16V | B | GRM42-6B105K16NPT | K22121803 | | 1- | B | d2 |
| C 1698 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | B | d2 |
| C 1699 | CHIP CAP. | 1uF | 16V | B | GRM42-6B105K16NPT | K22121803 | | 1- | B | e2 |
| C 1700 | CHIP CAP. | 0.001uF | 50V | B | GRM39B102K50PT | K22174821 | | 1- | B | e3 |
| C 1701 | CHIP CAP. | 0.1uF | 16V | B | GRM39B104K16PT | K22124805 | | 1- | B | d3 |
| C 1702 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d3 |
| C 1703 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C2 |
| C 1704 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | A | C3 |
| C 1705 | CHIP CAP. | 0.47uF | 25V | B | GRM40B474K25PT | K22140824 | | 1- | A | D3 |
| C 1706 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D3 |
| C 1707 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C3 |
| C 1708 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d3 |
| C 1709 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c3 |
| C 1710 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d3 |
| C 1711 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d3 |
| C 1712 | CHIP CAP. | 15pF | 50V | CH | GRM36CH150J50PT | K22178216 | | 1- | B | d3 |
| C 1713 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C3 |
| C 1715 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D3 |
| C 1716 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D3 |
| C 1717 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | A | D3 |
| C 1718 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | d3 |
| C 1719 | CHIP CAP. | 18pF | 50V | CH | GRM36CH180J50PT | K22178218 | | 1- | A | C3 |
| C 1720 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d3 |
| C 1721 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e3 |
| C 1722 | CHIP CAP. | 0.022uF | 25V | B | GRM39B223K25PT | K22144807 | | 1- | B | d3 |
| C 1723 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | d3 |
| C 1724 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C3 |
| C 1725 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | A | C3 |
| C 1726 | CHIP CAP. | 12pF | 50V | CH | GRM36CH120J50PT | K22178214 | | 1- | A | C3 |
| C 1727 | CHIP CAP. | 33pF | 50V | CH | GRM36CH330J50PT | K22178224 | | 1- | A | C3 |
| C 1728 | CHIP CAP. | 82pF | 50V | CH | GRM36CH820J50PT | K22178234 | | 1- | A | C3 |
| C 1729 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | d3 |
| C 1730 | CHIP CAP. | 150pF | 50V | CH | GRM36CH151J50PT | K22178240 | | 1- | B | d3 |
| C 1731 | CHIP CAP. | 120pF | 50V | CH | GRM36CH121J50PT | K22178238 | | 1- | B | d3 |
| C 1732 | CHIP CAP. | 68pF | 50V | CH | GRM36CH680J50PT | K22178232 | | 1- | B | d3 |
| C 1733 | CHIP CAP. | 82pF | 50V | CH | GRM36CH820J50PT | K22178234 | | 1- | B | d3 |
| C 1734 | CHIP CAP. | 270pF | 25V | CH | GRM36CH271J25PT | K22148248 | | 1- | B | d3 |
| C 1735 | CHIP CAP. | 150pF | 50V | CH | GRM36CH151J50PT | K22178240 | | 1- | B | d3 |
| C 1777 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | B | e5 |
| C 1778 | CHIP TA.CAP. | 22uF | 6.3V | | TEMSVA0J226M-8R | K78080047 | | 1- | B | f2 |
| C 1779 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f3 |
| C 1780 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | F3 |
| C 1782 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D4 |
| C 1783 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | D4 |
| C 1784 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | D4 |
| C 1785 | CHIP CAP. | 30pF | 50V | CH | GRM36CH300J50PT | K22178223 | | 1- | B | b2 |
| C 1787 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | d5 |
| C 1788 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | e5 |
| C 1789 | CHIP CAP. | 56pF | 50V | CH | GRM36CH560J50PT | K22178230 | | 1- | A | F3 |
| C 1790 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | c5 |
| C 1791 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | C4 |
| C 1793 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b5 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| C 1794 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C4 |
| C 1795 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | A | F5 |
| C 1796 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | B | c4 |
| C 1797 | CHIP CAP. | 0.5pF | 50V | CK | GRM36CK0R5B50PT | K22178285 | | 1- | B | a5 |
| C 1798 | CHIP CAP. | 30pF | 50V | CH | GRM36CH300J50PT | K22178223 | | 1- | B | b2 |
| C 1799 | CHIP CAP. | 4pF | 50V | CH | GRM36CH040B50PT | K22178291 | | 1- | B | c1 |
| C 1801 | CHIP CAP. | 5pF | 200V | CH | GRM1882C2D5R0CV01D | K22234207 | | 1- | A | D1 |
| C 1802 | CHIP CAP. | 2pF | 50V | CK | GRM36CK020B50PT | K22178289 | | 1- | B | d2 |
| C 1803 | CHIP CAP. | 1.5pF | 50V | CK | GRM36CK1R5B50PT | K22178288 | | 1- | B | d3 |
| C 1804 | CHIP CAP. | 0.5pF | 200V | CK | GRM1884C2DR50CY21D | K22234201 | | 1- | A | F3 |
| C 1805 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e4 |
| C 1806 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | C4 |
| C 1807 | CHIP CAP. | 7pF | 50V | CH | GRM36CH070B50PT | K22178294 | | 1- | B | d3 |
| C 1808 | CHIP CAP. | 0.0047uF | 50V | B | GRM39B472K50PT | K22174833 | | 1- | A | B2 |
| C 1809 | CHIP CAP. | 6pF | 50V | CH | GRM36CH060B50PT | K22178293 | | 1- | A | B4 |
| C 1810 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | d5 |
| C 1811 | CHIP TA.CAP. | 1uF | 25V | | TEMSVA1E105M-8R | K78140013 | | 1- | A | D3 |
| C 1813 | CHIP CAP. | 22pF | 50V | CH | GRM36CH220J50PT | K22178220 | | 1- | A | C5 |
| C 1814 | CHIP CAP. | 3pF | 50V | CJ | GRM36CJ030B50PT | K22178290 | | 1- | B | f5 |
| C 1815 | CHIP CAP. | 10pF | 50V | CH | GRM36CH100D50PT | K22178212 | | 1- | B | a4 |
| C 1817 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c4 |
| C 1818 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | E4 |
| C 1819 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B4 |
| C 1821 | CHIP CAP. | 1pF | 200V | CK | GRM1884C2D1R0CV01D | K22234203 | | 1- | B | a3 |
| C 1822 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | A | F5 |
| C 1823 | CHIP TA.CAP. | 10uF | 10V | | TEMSVA1A106M-8R | K78100028 | | 1- | A | E5 |
| C 1824 | CHIP CAP. | 3pF | 200V | CJ | GRM1883C2D3R0CV01D | K22234205 | | 1- | | |
| C 1827 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | | |
| C 1828 | CHIP CAP. | 43pF | 50V | CH | UMK105CH430JW-F | K22178273 | | 1- | | |
| C 1829 | CHIP CAP. | 4pF | 50V | CH | GRM39CH040C50PT | K22174205 | | 1- | | |
| C 1830 | CHIP CAP. | 1pF | 50V | CK | GRM39CK010B50PT | K22174267 | | 1- | | |
| C 1838 | CHIP CAP. | 3pF | 50V | CJ | GRM36CJ030B50PT | K22178290 | | 1- | | |
| CD1001 | CERAMIC DISC | | | | CDBM450C24 | H7901390 | | 1- | A | B4 |
| CD1002 | CERAMIC DISC | | | | CDBM450C24 | H7901390 | | 1- | A | C5 |
| CF1001 | CERAMIC FILTER | | | | CFWM450E | H3900466 | | 1- | A | B3 |
| CF1002 | CERAMIC FILTER | | | | CFWM450E | H3900466 | | 1- | A | C5 |
| CF1003 | CERAMIC FILTER | | | | CFWM450G | H3900435 | | 1- | A | C5 |
| D 1001 | DIODE | | | | RLS135 TE-11 | G2070128 | | 1- | B | b2 |
| D 1002 | DIODE | | | | RLS135 TE-11 | G2070128 | | 1- | B | b2 |
| D 1003 | DIODE | | | | 1SS302 TE85R | G2070088 | | 1- | B | b3 |
| D 1004 | DIODE | | | | HVC358B(TAPE) | G2070590 | | 1- | B | c4 |
| D 1005 | DIODE | | | | HVC358B(TAPE) | G2070590 | | 1- | B | c4 |
| D 1006 | DIODE | | | | HVC358B(TAPE) | G2070590 | | 1- | B | c4 |
| D 1007 | DIODE | | | | HVC131TRF | G2070676 | | 1- | A | F4 |
| D 1008 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | F4 |
| D 1009 | DIODE | | | | HVC358B(TAPE) | G2070590 | | 1- | A | F4 |
| D 1010 | DIODE | | | | HVC358B(TAPE) | G2070590 | | 1- | A | F5 |
| D 1011 | DIODE | | | | HVC358B(TAPE) | G2070590 | | 1- | A | F5 |
| D 1012 | DIODE | | | | HVC131TRF | G2070676 | | 1- | A | F5 |
| D 1013 | DIODE | | | | HVC131TRF | G2070676 | | 1- | A | F5 |
| D 1016 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | b4 |
| D 1017 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | c4 |
| D 1018 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | c4 |
| D 1019 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | a5 |
| D 1020 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | a5 |
| D 1021 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | a5 |
| D 1022 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | a5 |
| D 1024 | DIODE | | | | DAN222 TL | G2070174 | | 1- | B | a5 |
| D 1025 | DIODE | | | | 1SS302 TE85R | G2070088 | | 1- | B | a4 |
| D 1026 | DIODE | | | | 1SS302 TE85R | G2070088 | | 1- | A | G4 |
| D 1027 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | a5 |
| D 1028 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | G5 |
| D 1029 | DIODE | | | | HVC131TRF | G2070676 | | 1- | A | F5 |
| D 1030 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | A | C4 |
| D 1031 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | A | C5 |
| D 1032 | DIODE | | | | MA2S72800L | G2070858 | | 1- | A | B5 |
| D 1033 | DIODE | | | | DAN222 TL | G2070174 | | 1- | B | d5 |
| D 1034 | DIODE | | | | DAN222 TL | G2070174 | | 1- | B | d5 |
| D 1035 | DIODE | | | | DAN222 TL | G2070174 | | 1- | B | f4 |
| D 1036 | DIODE | | | | DAN222 TL | G2070174 | | 1- | A | B3 |
| D 1037 | DIODE | | | | DAN222 TL | G2070174 | | 1- | A | B3 |
| D 1038 | DIODE | | | | DA221 TL | G2070178 | | 1- | A | A4 |
| D 1039 | DIODE | | | | DA221 TL | G2070178 | | 1- | B | f5 |
| D 1040 | DIODE | | | | HZM27WA-TR | G2070530 | | 1- | B | e5 |
| D 1041 | DIODE | | | | HZM27WA-TR | G2070530 | | 1- | B | e5 |
| D 1042 | SURGE ABSORBER | | | | P6KA18 | Q9000721 | | 1- | A | B1 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| D 1043 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | A | A2 |
| D 1044 | DIODE | | | | D1F20-4063 | G2070474 | | 1- | B | g3 |
| D 1045 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | f4 |
| D 1046 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | g4 |
| D 1047 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | f5 |
| D 1048 | DIODE | | | | DAP222-TL | G2070432 | | 1- | B | b5 |
| D 1049 | DIODE | | | | DAP222-TL | G2070432 | | 1- | B | b5 |
| D 1050 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | b5 |
| D 1051 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | b5 |
| D 1052 | DIODE | | | | DAP222-TL | G2070432 | | 1- | B | b5 |
| D 1053 | DIODE | | | | DAP222-TL | G2070432 | | 1- | B | b5 |
| D 1054 | DIODE | | | | DAP222-TL | G2070432 | | 1- | B | b5 |
| D 1056 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | e4 |
| D 1057 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | e4 |
| D 1058 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | e4 |
| D 1059 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | e4 |
| D 1060 | DIODE | | | | DA221 TL | G2070178 | | 1- | B | e4 |
| D 1061 | DIODE | | | | UDZS TE-17 5.1B | G2070908 | | 1- | A | C4 |
| D 1062 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | d5 |
| D 1063 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | d5 |
| D 1064 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | d5 |
| D 1065 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | c5 |
| D 1066 | DIODE | | | | DA221 TL | G2070178 | | 1- | B | d4 |
| D 1067 | DIODE | | | | UDZS TE-17 5.1B | G2070908 | | 1- | B | c5 |
| D 1068 | DIODE | | | | DAN222 TL | G2070174 | | 1- | A | D5 |
| D 1069 | DIODE | | | | HVC375B-TRF | G2070856 | | 1- | B | d4 |
| D 1070 | DIODE | | | | HVC350B-TRF | G2070596 | | 1- | B | d4 |
| D 1071 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | d4 |
| D 1072 | DIODE | | | | HVC131TRF | G2070676 | | 1- | A | C4 |
| D 1073 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | C3 |
| D 1074 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | D4 |
| D 1075 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | D3 |
| D 1076 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | d4 |
| D 1077 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | d4 |
| D 1078 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | d4 |
| D 1079 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | C4 |
| D 1080 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | C4 |
| D 1081 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | e3 |
| D 1082 | DIODE | | | | HVC358B(TAPE) | G2070590 | | 1- | A | D5 |
| D 1083 | DIODE | | | | HVC358B(TAPE) | G2070590 | | 1- | A | D5 |
| D 1084 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | c5 |
| D 1085 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | E5 |
| D 1086 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | A | D5 |
| D 1087 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | A | D5 |
| D 1088 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | D5 |
| D 1089 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | c5 |
| D 1091 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | A | D4 |
| D 1092 | DIODE | | | | DAN222 TL | G2070174 | | 1- | A | E5 |
| D 1093 | DIODE | | | | HVC300A(TAPE) | G2070586 | | 1- | B | c5 |
| D 1094 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | c5 |
| D 1095 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | E4 |
| D 1096 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | E5 |
| D 1097 | DIODE | | | | HVC365 TRF | G2070902 | | 1- | B | b4 |
| D 1098 | DIODE | | | | HVC362TRF | G2070636 | | 1- | B | b4 |
| D 1100 | DIODE | | | | DAN222 TL | G2070174 | | 1- | A | B3 |
| D 1101 | DIODE | | | | UM9957F/TR | G2070562 | | 1- | B | c1 |
| D 1102 | DIODE | | | | UM9957F/TR | G2070562 | | 1- | A | E2 |
| D 1103 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | b2 |
| D 1104 | DIODE | | | | UM9957F/TR | G2070562 | | 1- | A | F2 |
| D 1105 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | b2 |
| D 1107 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | a1 |
| D 1108 | DIODE | | | | DAN222 TL | G2070174 | | 1- | B | c3 |
| D 1109 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | b4 |
| D 1110 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | b4 |
| D 1112 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | b1 |
| D 1113 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | a1 |
| D 1114 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | b1 |
| D 1115 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | a1 |
| D 1116 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | b4 |
| D 1117 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | b3 |
| D 1118 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | c3 |
| D 1119 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | b3 |
| D 1120 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | c3 |
| D 1121 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | b3 |
| D 1122 | DIODE | | | | MA2S72800L | G2070858 | | 1- | B | c3 |
| D 1123 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | a4 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| D 1125 | DIODE | | | | DAN222 TL | G2070174 | | 1- | B | e3 |
| D 1126 | DIODE | | | | DAN222 TL | G2070174 | | 1- | B | e3 |
| D 1127 | DIODE | | | | DAN235E TL | G2070612 | | 1- | B | d3 |
| D 1128 | DIODE | | | | DAN235E TL | G2070612 | | 1- | B | d3 |
| D 1129 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | e3 |
| D 1130 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | e3 |
| D 1132 | DIODE | | | | D1F20-4063 | G2070474 | | 1- | A | B2 |
| D 1133 | DIODE | | | | RLS135 TE-11 | G2070128 | | 1- | A | C2 |
| D 1134 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | C2 |
| D 1135 | DIODE | | | | HZM13NB2 TR | G2070894 | | 1- | A | D3 |
| D 1136 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | B | d3 |
| D 1137 | DIODE | | | | MA2S111-(TX) | G2070614 | | 1- | A | D3 |
| D 1138 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | C3 |
| D 1139 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | C3 |
| D 1140 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | C3 |
| D 1141 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | d3 |
| D 1142 | DIODE | | | | HSC277TRF | G2070584 | | 1- | B | d2 |
| D 1144 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | G3 |
| D 1145 | DIODE | | | | HSC277TRF | G2070584 | | 1- | A | G3 |
| D 1146 | DIODE | | | | UM9957F/TR | G2070562 | | 1- | A | E2 |
| D 1147 | DIODE | | | | DAN222 TL | G2070174 | | 1- | B | b5 |
| D 1148 | DIODE | | | | HVC131TRF | G2070676 | | 1- | A | F4 |
| FB1001 | BEADS COIL | | | | B-01-A | L1190386 | | 1- | A | B1 |
| FB1002 | FERRITE BEADS | | | | SMB304729 | L9190094 | | 1- | A | C1 |
| HS1001 | HEATSINK PLATE | | | | | RA0227600 | | 1- | B | d3 |
| J 1001 | CONNECTOR | | | | HSJ6062-01-440 | P1090983 | | 1- | A | A1 |
| J 1002 | CONNECTOR | | | | SC25-02WS | P0090621 | | 1- | A | A3 |
| J 1003 | CONNECTOR | | | | MD-S6000-90 | P1091087 | | 1- | B | f1 |
| J 1004 | CONNECTOR | | | | B2B-ZR | P0090647 | | 1- | A | B1 |
| J 1005 | CONNECTOR | | | | MJ-66J-RD315K | P1091049 | | 1- | A | B6 |
| L 1001 | COIL | 0.014uH | | | AS050425-14NK | L0022583 | | 1- | A | F2 |
| L 1002 | M.RFC | 0.015uH | | 2% | C1608CA-15NG | L1691034 | | 1- | B | b3 |
| L 1003 | M.RFC | 0.01uH | | 2% | C1608CA-10NG | L1691032 | | 1- | B | b3 |
| L 1004 | M.RFC | 0.039uH | | 2% | C1608CA-39NG | L1691039 | | 1- | B | b4 |
| L 1005 | M.RFC | 0.039uH | | 2% | C1608CA-39NG | L1691039 | | 1- | B | b4 |
| L 1006 | M.RFC | 0.1uH | | | TFL0816-100N | L1690981 | | 1- | B | b4 |
| L 1007 | M.RFC | 0.01uH | | 2% | C1608CA-10NG | L1691032 | | 1- | B | c4 |
| L 1008 | COIL | | | | E2 0.28-1.0-4T-R | L0022365 | | 1- | B | c4 |
| L 1009 | COIL | | | | E2 0.28-1.0-4T-R | L0022365 | | 1- | B | c4 |
| L 1010 | M.RFC | 0.015uH | | | TFL0816-15 | L1690493 | | 1- | B | c4 |
| L 1011 | M.RFC | 0.1uH | | | TFL0816-100N | L1690981 | | 1- | A | F4 |
| L 1012 | M.RFC | 0.01uH | | 2% | C1608CA-10NG | L1691032 | | 1- | A | F4 |
| L 1013 | COIL | | | | E2 0.28-1.0-4T-R | L0022365 | | 1- | A | F5 |
| L 1014 | COIL | | | | E2 0.28-1.0-4T-R | L0022365 | | 1- | A | F5 |
| L 1015 | M.RFC | 0.015uH | | | TFL0816-15 | L1690493 | | 1- | A | F5 |
| L 1016 | M.RFC | 0.015uH | | | TFL0816-15 | L1690493 | | 1- | A | F4 |
| L 1017 | M.RFC | 0.015uH | | | TFL0816-15 | L1690493 | | 1- | A | F5 |
| L 1018 | M.RFC | 0.047uH | | 2% | C1608CA-47NG | L1691040 | | 1- | B | b2 |
| L 1019 | M.RFC | 0.1uH | | 2% | C1608CA-R10G | L1691045 | | 1- | B | a3 |
| L 1020 | M.RFC | 0.047uH | | 2% | C1608CA-47NG | L1691040 | | 1- | B | a4 |
| L 1021 | M.RFC | 0.033uH | | 2% | C1608CA-33NG | L1691038 | | 1- | B | a4 |
| L 1023 | M.RFC | 0.1uH | | 2% | C1608CA-R10G | L1691045 | | 1- | B | a4 |
| L 1024 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | B | b4 |
| L 1025 | M.RFC | 0.082uH | | 2% | C1608CA-82NG | L1691044 | | 1- | B | b4 |
| L 1026 | M.RFC | 0.082uH | | 2% | C1608CA-82NG | L1691044 | | 1- | B | c4 |
| L 1027 | M.RFC | 0.082uH | | 2% | C1608CA-82NG | L1691044 | | 1- | B | c4 |
| L 1028 | M.RFC | 0.047uH | | | TFL0816-47 | L1690499 | | 1- | B | c4 |
| L 1034 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | B | a4 |
| L 1035 | M.RFC | 0.082uH | | 2% | C1608CA-82NG | L1691044 | | 1- | B | a4 |
| L 1036 | M.RFC | 0.082uH | | 2% | C1608CA-82NG | L1691044 | | 1- | B | a5 |
| L 1037 | M.RFC | 0.082uH | | 2% | C1608CA-82NG | L1691044 | | 1- | B | a5 |
| L 1038 | M.RFC | 0.047uH | | | TFL0816-47 | L1690499 | | 1- | B | a5 |
| L 1039 | M.RFC | 0.15uH | | 2% | C1608CA-R15G | L1691101 | | 1- | B | a4 |
| L 1040 | M.RFC | 0.22uH | | 2% | C1608CA-R22G | L1691103 | | 1- | B | a4 |
| L 1041 | M.RFC | 0.22uH | | 2% | C1608CA-R22G | L1691103 | | 1- | B | a4 |
| L 1042 | M.RFC | 0.27uH | | 2% | C1608CA-R27G | L1691104 | | 1- | A | G4 |
| L 1043 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | G4 |
| L 1044 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | G4 |
| L 1045 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | G4 |
| L 1046 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | G5 |
| L 1047 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | G5 |
| L 1048 | M.RFC | 0.22uH | | 2% | C1608CA-R22G | L1691103 | | 1- | B | a4 |
| L 1049 | M.RFC | 0.22uH | | 2% | C1608CA-R22G | L1691103 | | 1- | B | a5 |
| L 1050 | M.RFC | 0.22uH | | 2% | C1608CA-R22G | L1691103 | | 1- | B | a5 |
| L 1051 | M.RFC | 0.0082uH | | | TFL0816-8N2 | L1690490 | | 1- | B | a3 |
| L 1052 | M.RFC | 0.0082uH | | | TFL0816-8N2 | L1690490 | | 1- | B | a3 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| L 1053 | M.RFC | 0.0047uH | | | TFL0816-4N7 | L1690487 | | 1- | A | G4 |
| L 1054 | M.RFC | 0.0039uH | | | TFL0816-3N9 | L1690486 | | 1- | A | F4 |
| L 1055 | M.RFC | 0.0047uH | | | TFL0816-4N7 | L1690487 | | 1- | A | F4 |
| L 1056 | M.RFC | 0.0047uH | | | TFL0816-4N7 | L1690487 | | 1- | A | F5 |
| L 1057 | M.RFC | 0.0047uH | | | TFL0816-4N7 | L1690487 | | 1- | A | F5 |
| L 1058 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | C4 |
| L 1059 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | B4 |
| L 1060 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | B | b5 |
| L 1061 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | C5 |
| L 1062 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | B | e3 |
| L 1063 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | A | C5 |
| L 1064 | M.RFC | 150uH | | | FLC32T-151J | L1690229 | | 1- | B | f4 |
| L 1065 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | B | f5 |
| L 1066 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | B | d4 |
| L 1067 | COIL | | | | E2 0.3-1.1-3T-R | L0022579 | | 1- | B | d4 |
| L 1068 | M.RFC | 0.0039uH | | | TFL0816-3N9 | L1690486 | | 1- | B | d4 |
| L 1069 | M.RFC | 0.022uH | | | TFL0816-22 | L1690495 | | 1- | B | d4 |
| L 1070 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | B | d4 |
| L 1071 | CHIP COIL | 0.039uH | | 2% | LQN21A39NG04 | L1690798 | | 1- | B | d4 |
| L 1072 | M.RFC | 0.022uH | | 2% | C1608CA-22NG | L1691036 | | 1- | B | d4 |
| L 1073 | M.RFC | 0.22uH | | | LK1608 R22K-T | L1690410 | | 1- | B | d4 |
| L 1074 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | A | D5 |
| L 1075 | COIL | | | | E2 0.28-1.0-4T-R | L0022365 | | 1- | A | D5 |
| L 1076 | M.RFC | 0.033uH | | | TFL0816-33 | L1690497 | | 1- | A | D5 |
| L 1077 | CHIP COIL | 0.033uH | | 2% | LQN21A33NG04 | L1691222 | | 1- | A | D5 |
| L 1078 | M.RFC | 0.015uH | | 2% | C1608CA-15NG | L1691034 | | 1- | A | D5 |
| L 1079 | M.RFC | 0.15uH | | | LK1608 R15K-T | L1690409 | | 1- | A | D5 |
| L 1081 | CHIP COIL | 0.18uH | | 2% | LQN21AR18G04 | L1691223 | | 1- | B | c4 |
| L 1082 | M.RFC | 0.39uH | | 2% | C1608CA-R39G | L1691107 | | 1- | B | c5 |
| L 1083 | M.RFC | 2.2uH | | | LK1608 2R2K-T | L1690634 | | 1- | B | c4 |
| L 1084 | CHIP COIL | 0.22uH | | 2% | LQN21AR22G04 | L1691224 | | 1- | B | c4 |
| L 1085 | M.RFC | 0.47uH | | | LK1608 R47K-T | L1690414 | | 1- | B | b5 |
| L 1086 | M.RFC | 0.22uH | | | LK1608 R22K-T | L1690410 | | 1- | A | E5 |
| L 1087 | M.RFC | 0.47uH | | | LK2125 R47K-T | L1690315 | | 1- | A | D3 |
| L 1088 | COIL | 0.0068uH | | | AS100240-6R8N | L0022656 | | 1- | A | E2 |
| L 1089 | COIL | | | | E2 0.25-1.9-5.5T-R | L0022610 | | 1- | A | E2 |
| L 1090 | COIL | 0.015uH | | | AS100440-15N | L0022811 | | 1- | A | E2 |
| L 1091 | COIL | 0.015uH | | | AS100440-15N | L0022811 | | 1- | A | E2 |
| L 1092 | COIL | 0.015uH | | | AS0803-15NK | L0022536 | | 1- | A | F3 |
| L 1093 | COIL | 0.012uH | | | AS080336-12N | L0022810 | | 1- | A | F3 |
| L 1094 | COIL A1 | | | | 3.5T3.5D1.0UEW R | L0022805 | | 1- | A | F2 |
| L 1095 | COIL A1 | | | | 3.5T3.5D1.0UEW R | L0022805 | | 1- | A | F2 |
| L 1096 | M.RFC | 1uH | | | ELJ-ND1R0JF | L1690977 | | 1- | B | c2 |
| L 1097 | COIL | | | | E2 0.25-1.9-5.5T-R | L0022610 | | 1- | A | D1 |
| L 1098 | COIL A1 | | | | 1.5T3.0D1.2UEW R | L0022806 | | 1- | A | D1 |
| L 1099 | COIL A1 | | | | 3.5T3.5D1.0UEW R | L0022805 | | 1- | A | E1 |
| L 1100 | COIL A1 | | | | 2.5T3.5D1.0UEW R | L0022804 | | 1- | A | E1 |
| L 1101 | COIL A1 | | | | 3.5T3.5D1.0UEW R | L0022805 | | 1- | A | E1 |
| L 1102 | COIL A1 | | | | 3.5T3.0D0.8UEW R | L0022798 | | 1- | A | F2 |
| L 1103 | COIL A1 | | | | 7.5T5.0D0.8UEW R | L0022800 | | 1- | A | F3 |
| L 1104 | COIL A1 | | | | 7.5T5.0D0.8UEW R | L0022800 | | 1- | A | F3 |
| L 1105 | COIL A1 | | | | 2.5T5.0D1.2UEW R | L0022809 | | 1- | A | D2 |
| L 1106 | COIL A1 | | | | 2.5T3.0D1.2UEW R | L0022807 | | 1- | A | E2 |
| L 1107 | COIL A1 | | | | 7.5T6.0D0.8UEW R | L0022808 | | 1- | A | D3 |
| L 1108 | COIL A1 | | | | 8.5T6.0D0.8UEW R | L0022802 | | 1- | A | E3 |
| L 1109 | COIL A1 | | | | 7.5T5.0D0.8UEW R | L0022800 | | 1- | A | E3 |
| L 1110 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | B | e3 |
| L 1118 | COIL A1 | | | | 13.5T5.5D0.8UEW R | L0022801 | | 1- | A | D1 |
| L 1120 | COIL | 0.044uH | | | AS050535-44N | L0022812 | | 1- | A | B1 |
| L 1121 | COIL | 0.012uH | | | AS080336-12N | L0022810 | | 1- | A | C1 |
| L 1123 | COIL | | | | E2 0.4-3.0-11.5T-L | L0022646 | | 1- | A | B3 |
| L 1124 | COIL | | | | E2 0.4-3.0-11.5T-L | L0022646 | | 1- | A | C3 |
| L 1125 | COIL | 0.056uH | | | AS050635-56N | L0022813 | | 1- | A | B3 |
| L 1127 | M.RFC | 1uH | | | ELJ-ND1R0JF | L1690977 | | 1- | B | e2 |
| L 1128 | COIL | | | | E2 0.35-1.6-7T-L | L0022390 | | 1- | A | B2 |
| L 1129 | COIL | | | | E2 0.35-1.6-5.5T-L | L0022616 | | 1- | A | C2 |
| L 1130 | M.RFC | 1uH | | | ELJ-ND1R0JF | L1690977 | | 1- | B | e2 |
| L 1131 | COIL | | | | E2 0.45-1.4-2.5T-L | L0022618 | | 1- | A | C2 |
| L 1132 | COIL | | | | E2 0.4-1.3-2T-L | L0022580 | | 1- | A | C2 |
| L 1134 | M.RFC | 0.1uH | | 2% | C1608CA-R10G | L1691045 | | 1- | A | D3 |
| L 1135 | M.RFC | 0.27uH | | 2% | C1608CA-R27G | L1691104 | | 1- | B | d3 |
| L 1136 | M.RFC | 0.15uH | | 2% | C1608CA-R15G | L1691101 | | 1- | B | d3 |
| L 1137 | M.RFC | 0.022uH | | | TFL0816-22 | L1690495 | | 1- | B | d3 |
| L 1138 | M.RFC | 0.015uH | | | TFL0816-15 | L1690493 | | 1- | B | d3 |
| L 1139 | M.RFC | 0.0082uH | | | TFL0816-8N2 | L1690490 | | 1- | A | C3 |
| L 1140 | COIL | | | | E2 0.35-1.6-4.5T-L | L0022577 | | 1- | A | C3 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| L 1141 | COIL | | | | E2 0.3-1.1-3T-R | L0022579 | | 1- | A | C3 |
| L 1142 | COIL | | | | E2 0.4-1.3-2T-L | L0022580 | | 1- | A | C3 |
| L 1143 | COIL | | | | E2 0.28-1.0-8TR | L0022423 | | 1- | A | C3 |
| L 1144 | M.RFC | 0.1uH | | 2% | C1608CA-R10G | L1691045 | | 1- | B | d3 |
| L 1145 | M.RFC | 0.1uH | | 2% | C1608CA-R10G | L1691045 | | 1- | B | d3 |
| L 1146 | M.RFC | 0.22uH | | 2% | C1608CA-R22G | L1691103 | | 1- | B | d3 |
| L 1147 | M.RFC | 0.22uH | | 2% | C1608CA-R22G | L1691103 | | 1- | B | d3 |
| L 1148 | M.RFC | 0.1uH | | 2% | C1608CA-R10G | L1691045 | | 1- | A | B3 |
| L 1149 | COIL | | | | E2 0.25-1.9-5.5T-R | L0022610 | | 1- | A | E1 |
| L 1150 | CHIP COIL | 0.033uH | | 2% | LQN21A33NG04 | L1691222 | | 1- | B | b2 |
| L 1151 | M.RFC | 1uH | | | ELJ-ND1R0JF | L1690977 | | 1- | A | B2 |
| L 1152 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | B | b5 |
| L 1153 | M.RFC | 4.7uH | | | LK1608 4R7K-T | L1690688 | | 1- | B | c4 |
| L 1154 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | A | D5 |
| L 1156 | M.RFC | 0.022uH | | | TFL0816-22 | L1690495 | | 1- | A | D4 |
| L 1158 | M.RFC | 1uH | | | ELJ-ND1R0JF | L1690977 | | 1- | | |
| Q 1001 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | B | b4 |
| Q 1002 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | B | b4 |
| Q 1003 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | B | c4 |
| Q 1004 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | A | F5 |
| Q 1005 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | F5 |
| Q 1006 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | B | a4 |
| Q 1007 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | B | a4 |
| Q 1008 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | B | c4 |
| Q 1010 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | B | a5 |
| Q 1011 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | B | a4 |
| Q 1012 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | A | G4 |
| Q 1013 | TRANSISTOR | | | | 2SC5277-D2-TL | G3352778B | | 1- | A | F4 |
| Q 1014 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | F5 |
| Q 1015 | FET | | | | 3SK296ZQ-TL | G4802968 | | 1- | B | a5 |
| Q 1016 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | E4 |
| Q 1017 | TRANSISTOR | | | | 2SC4400-3-TL | G3344008C | | 1- | A | C4 |
| Q 1018 | IC | | | | TA31136FN(EL) | G1091605 | | 1- | A | B4 |
| Q 1019 | TRANSISTOR | | | | 2SC4400-3-TL | G3344008C | | 1- | B | b5 |
| Q 1020 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | E4 |
| Q 1021 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | e5 |
| Q 1022 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | A | C4 |
| Q 1023 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | e5 |
| Q 1024 | IC | | | | TA31136FN(EL) | G1091605 | | 1- | A | C5 |
| Q 1025 | IC | | | | NJM2902V-TE1 | G1091679 | | 1- | B | f4 |
| Q 1026 | TRANSISTOR | | | | 2SC4400-3-TL | G3344008C | | 1- | B | e4 |
| Q 1027 | TRANSISTOR | | | | 2SC4400-3-TL | G3344008C | | 1- | B | d5 |
| Q 1028 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | d5 |
| Q 1030 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | A4 |
| Q 1031 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | A4 |
| Q 1032 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | f4 |
| Q 1033 | IC | | | | NJM2902V-TE1 | G1091679 | | 1- | A | A4 |
| Q 1034 | IC | | | | NJM2902V-TE1 | G1091679 | | 1- | B | f4 |
| Q 1035 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | B3 |
| Q 1036 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | A | B3 |
| Q 1037 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | A | A3 |
| Q 1038 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | A4 |
| Q 1039 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | A4 |
| Q 1040 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | g4 |
| Q 1041 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | g4 |
| Q 1042 | IC | | | | M51132FP 600C | G1091930 | | 1- | A | A2 |
| Q 1043 | TRANSISTOR | | | | CPH6102-TL | G3070223 | | 1- | B | f1 |
| Q 1044 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | f1 |
| Q 1045 | IC | | | | LA4425A | G1092241 | | 1- | A | A2 |
| Q 1046 | IC | | | | TC4W66FU TE12L | G1091676 | | 1- | B | f3 |
| Q 1047 | IC | | | | TC4W66FU TE12L | G1091676 | | 1- | B | f2 |
| Q 1050 | IC | | | | TDA7233D-TR | G1091112 | | 1- | A | A3 |
| Q 1051 | IC | | | | BU4066BCFV-E2 | G1093537 | | 1- | A | B4 |
| Q 1052 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | A1 |
| Q 1053 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | A1 |
| Q 1054 | IC | | | | NJM2902V-TE1 | G1091679 | | 1- | A | A4 |
| Q 1055 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | e1 |
| Q 1056 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | e5 |
| Q 1057 | TRANSISTOR | | | | 2SB1301-T2 ZQ | G3213017Q | | 1- | A | B2 |
| Q 1058 | TRANSISTOR | | | | 2SB1201S-TL | G3070195 | | 1- | B | e2 |
| Q 1059 | IC | | | | MM1216ENRE | G1092432 | | 1- | B | e2 |
| Q 1060 | IC | | | | NJM78L05UA TE1 | G1091325 | | 1- | A | B2 |
| Q 1061 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | A | A2 |
| Q 1062 | TRANSISTOR | | | | 2SA1774 TL R | G3117748R | | 1- | B | f3 |
| Q 1063 | IC | | | | NJM78L05UA TE1 | G1091325 | | 1- | B | g3 |
| Q 1064 | IC | | | | M51951BHP-600C | G1093634 | | 1- | B | f4 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| Q 1065 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | g4 |
| Q 1066 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | f5 |
| Q 1067 | IC | | | | AT24C128N-10SI-2.7 | G1093516 | | 1- | B | g5 |
| Q 1068 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | f3 |
| Q 1069 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | a5 |
| Q 1070 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | a5 |
| Q 1071 | TRANSISTOR | | | | UMA8N TR | G3070270 | | 1- | A | E5 |
| Q 1072 | TRANSISTOR | | | | UMA8N TR | G3070270 | | 1- | A | F5 |
| Q 1073 | TRANSISTOR | | | | UMA8N TR | G3070270 | | 1- | A | F5 |
| Q 1074 | TRANSISTOR | | | | UMA8N TR | G3070270 | | 1- | A | F5 |
| Q 1075 | IC | | | | BU2090FS-E1 | G1092187 | | 1- | A | E5 |
| Q 1076 | TRANSISTOR | | | | IMT17 T110 | G3070295 | | 1- | A | E4 |
| Q 1077 | TRANSISTOR | | | | IMT17 T110 | G3070295 | | 1- | A | E4 |
| Q 1078 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | b5 |
| Q 1079 | TRANSISTOR | | | | RT1P441U-T11-1 | G3070248 | | 1- | A | E5 |
| Q 1080 | TRANSISTOR | | | | UMA8N TR | G3070270 | | 1- | B | b5 |
| Q 1081 | TRANSISTOR | | | | UMA8N TR | G3070270 | | 1- | B | b5 |
| Q 1082 | TRANSISTOR | | | | UMA8N TR | G3070270 | | 1- | B | b5 |
| Q 1083 | TRANSISTOR | | | | RT1P441U-T11-1 | G3070248 | | 1- | A | E5 |
| Q 1084 | IC | | | | M3826AEFGP R0704 | G1093798 | DST: USA | 1- | A | A5 |
| Q 1084 | IC | | | | M3826AEFGP R0705 | G1093799 | DST: EXP | 1- | A | A5 |
| Q 1085 | IC | | | | M62353GP 70ED | G1092621 | | 1- | B | f5 |
| Q 1086 | IC | | | | BU4066BCFV-E2 | G1093537 | | 1- | B | e4 |
| Q 1087 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | e4 |
| Q 1088 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | e3 |
| Q 1089 | TRANSISTOR | | | | 2SA1774 TL R | G3117748R | | 1- | A | C3 |
| Q 1090 | IC | | | | MB15A02PFV1-G-BND-EF | G1092541 | | 1- | A | C4 |
| Q 1091 | TRANSISTOR | | | | 2SA1774 TL R | G3117748R | | 1- | A | B4 |
| Q 1092 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | A | C4 |
| Q 1094 | TRANSISTOR | | | | 2SA1774 TL R | G3117748R | | 1- | B | c5 |
| Q 1095 | IC | | | | MB15A02PFV1-G-BND-EF | G1092541 | | 1- | B | c5 |
| Q 1096 | TRANSISTOR | | | | RT1P441U-T11-1 | G3070248 | | 1- | B | d5 |
| Q 1097 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | d5 |
| Q 1098 | TRANSISTOR | | | | 2SA1774 TL R | G3117748R | | 1- | B | c5 |
| Q 1099 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | c5 |
| Q 1100 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | c5 |
| Q 1106 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | B | d4 |
| Q 1107 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | B | d4 |
| Q 1108 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | C4 |
| Q 1109 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | B | d4 |
| Q 1110 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | B | d4 |
| Q 1111 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | A | D4 |
| Q 1112 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | D5 |
| Q 1113 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | D5 |
| Q 1114 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | A | E5 |
| Q 1115 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | A | D5 |
| Q 1116 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | A | D5 |
| Q 1117 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | A | E5 |
| Q 1118 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | B | c4 |
| Q 1119 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | B | c4 |
| Q 1120 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | c5 |
| Q 1121 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | B | c4 |
| Q 1122 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | B | b5 |
| Q 1123 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | A | D4 |
| Q 1124 | TRANSISTOR | | | | 2SC5374-TL | G3353748 | | 1- | A | E5 |
| Q 1125 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | b4 |
| Q 1126 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | b4 |
| Q 1127 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | b4 |
| Q 1128 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | e3 |
| Q 1129 | TRANSISTOR | | | | RT1P441U-T11-1 | G3070248 | | 1- | B | e3 |
| Q 1130 | IC | | | | NJM2904V-TE1 | G1091677 | | 1- | B | e3 |
| Q 1131 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | e3 |
| Q 1134 | FET | | | | RD70HVF1 | G3090140 | | 1- | A | D1 |
| Q 1135 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | e2 |
| Q 1137 | FET | | | | 2SK2975-T11 | G3829757 | | 1- | A | C3 |
| Q 1138 | TRANSISTOR | | | | 2SD1664 T100 Q | G3416647Q | | 1- | A | D3 |
| Q 1139 | FET | | | | 2SK2596BXTL | G3825967 | | 1- | A | C3 |
| Q 1140 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | d3 |
| Q 1141 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | E4 |
| Q 1142 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | e5 |
| Q 1143 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | d5 |
| Q 1144 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | A | B4 |
| Q 1145 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | d5 |
| Q 1146 | TRANSISTOR | | | | 2SC5006-T1 | G3350068 | | 1- | A | C4 |
| Q 1147 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | A | E5 |
| R 1001 | CHIP RES. | 82k | 1/16W | 0.5% | RR0510R-823-D | J24189165 | | 1- | B | b4 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1002 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | b4 |
| R 1003 | CHIP RES. | 47k | 1/16W | 0.5% | RR0510R-473-D | J24189159 | | 1- | B | b3 |
| R 1004 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | b4 |
| R 1005 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | | 1- | A | F4 |
| R 1006 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | b4 |
| R 1007 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | b4 |
| R 1008 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | B | b4 |
| R 1009 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | b4 |
| R 1010 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | b4 |
| R 1011 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | c4 |
| R 1012 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | c4 |
| R 1013 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | c4 |
| R 1014 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | c4 |
| R 1015 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | c4 |
| R 1016 | CHIP RES. | 150 | 1/16W | 5% | RMC1/16S 151JTH | J24189015 | | 1- | B | c4 |
| R 1017 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | c4 |
| R 1018 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | c4 |
| R 1019 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c3 |
| R 1020 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | F4 |
| R 1021 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | F4 |
| R 1022 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | F4 |
| R 1023 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | F5 |
| R 1024 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | F5 |
| R 1025 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | A | F5 |
| R 1026 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | F5 |
| R 1027 | CHIP RES. | 150 | 1/16W | 5% | RMC1/16S 151JTH | J24189015 | | 1- | A | F5 |
| R 1028 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | F5 |
| R 1029 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | F5 |
| R 1030 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | F5 |
| R 1031 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | F4 |
| R 1032 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | F5 |
| R 1033 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | F4 |
| R 1034 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | | 1- | A | F4 |
| R 1035 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16S 105JTH | J24189061 | | 1- | A | F5 |
| R 1036 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | F5 |
| R 1037 | CHIP RES. | 56k | 1/16W | 0.5% | RR0510R-563-D | J24189161 | | 1- | B | a4 |
| R 1038 | CHIP RES. | 47k | 1/16W | 0.5% | RR0510R-473-D | J24189159 | | 1- | B | a4 |
| R 1039 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | a4 |
| R 1040 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | a4 |
| R 1041 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | b4 |
| R 1042 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | b4 |
| R 1043 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | b4 |
| R 1044 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | B | b4 |
| R 1045 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | b4 |
| R 1046 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | c4 |
| R 1047 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | c4 |
| R 1048 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | c4 |
| R 1049 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | B | c4 |
| R 1050 | CHIP RES. | 120k | 1/16W | 5% | RMC1/16S 124JTH | J24189050 | | 1- | B | c4 |
| R 1051 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | c4 |
| R 1052 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | c4 |
| R 1053 | CHIP RES. | 150 | 1/16W | 5% | RMC1/16S 151JTH | J24189015 | | 1- | B | c4 |
| R 1054 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c4 |
| R 1058 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | a4 |
| R 1061 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | a5 |
| R 1062 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | a4 |
| R 1063 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | B | a4 |
| R 1064 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | a5 |
| R 1065 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | a5 |
| R 1066 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | a5 |
| R 1067 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | a5 |
| R 1068 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | B | a5 |
| R 1069 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | a5 |
| R 1070 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | a5 |
| R 1071 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | a5 |
| R 1072 | CHIP RES. | 1.5k | 1/16W | 5% | RMC1/16S 152JTH | J24189027 | | 1- | B | a5 |
| R 1073 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | a5 |
| R 1074 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | a5 |
| R 1075 | CHIP RES. | 150 | 1/16W | 5% | RMC1/16S 151JTH | J24189015 | | 1- | B | a5 |
| R 1077 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | B | a4 |
| R 1078 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | a4 |
| R 1079 | CHIP RES. | 270k | 1/16W | 5% | RMC1/16S 274JTH | J24189054 | | 1- | A | G4 |
| R 1080 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | G4 |
| R 1081 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | A | G4 |
| R 1082 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | G4 |
| R 1083 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | G4 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1084 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | G5 |
| R 1085 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | | 1- | B | a4 |
| R 1086 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | G5 |
| R 1087 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | B | a4 |
| R 1088 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | a4 |
| R 1089 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | a4 |
| R 1090 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | B | a5 |
| R 1091 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | G5 |
| R 1092 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | a5 |
| R 1093 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | a5 |
| R 1094 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | a5 |
| R 1095 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | a5 |
| R 1096 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | B | a5 |
| R 1097 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | A | F4 |
| R 1098 | CHIP RES. | 82 | 1/16W | 5% | RMC1/16S 820JTH | J24189012 | | 1- | A | F4 |
| R 1099 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | F5 |
| R 1100 | CHIP RES. | 820k | 1/16W | 5% | RMC1/16S 824JTH | J24189060 | | 1- | A | F5 |
| R 1111 | CHIP RES. | 6.8k | 1/16W | 5% | RMC1/16S 682JTH | J24189035 | | 1- | A | F5 |
| R 1112 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | F5 |
| R 1113 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | a4 |
| R 1114 | CHIP RES. | 82k | 1/16W | 0.5% | RR0510R-823-D | J24189165 | | 1- | A | E4 |
| R 1115 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | B | a4 |
| R 1116 | CHIP RES. | 68k | 1/16W | 0.5% | RR0510R-683-D | J24189163 | | 1- | B | b4 |
| R 1117 | CHIP RES. | 68k | 1/16W | 0.5% | RR0510R-683-D | J24189163 | | 1- | B | b4 |
| R 1118 | CHIP RES. | 33k | 1/16W | 0.5% | RR0510R-333-D | J24189155 | | 1- | A | E4 |
| R 1119 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | C4 |
| R 1120 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | C4 |
| R 1121 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | C4 |
| R 1122 | CHIP RES. | 560 | 1/16W | 5% | RMC1/16S 561JTH | J24189022 | | 1- | A | C4 |
| R 1123 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | C4 |
| R 1124 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | A | C4 |
| R 1125 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | B4 |
| R 1126 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | B4 |
| R 1127 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | e3 |
| R 1128 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | a5 |
| R 1129 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | a5 |
| R 1130 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | b5 |
| R 1131 | CHIP RES. | 560 | 1/16W | 5% | RMC1/16S 561JTH | J24189022 | | 1- | B | b5 |
| R 1132 | CHIP RES. | 330k | 1/16W | 5% | RMC1/16S 334JTH | J24189055 | | 1- | B | b5 |
| R 1133 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | C5 |
| R 1134 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | C5 |
| R 1135 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | B | b5 |
| R 1136 | CHIP RES. | 12k | 1/16W | 0.5% | RR0510R-123-D | J24189145 | | 1- | A | F4 |
| R 1137 | CHIP RES. | 39k | 1/16W | 0.5% | RR0510R-393-D | J24189157 | | 1- | B | b5 |
| R 1138 | CHIP RES. | 10k | 1/16W | 0.5% | RR0510P-103-D | J24189143 | | 1- | B | a5 |
| R 1139 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | A | B5 |
| R 1140 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e5 |
| R 1141 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | e5 |
| R 1142 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | B | e5 |
| R 1143 | CHIP RES. | 330k | 1/16W | 5% | RMC1/16S 334JTH | J24189055 | | 1- | A | B5 |
| R 1144 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | B4 |
| R 1145 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | B5 |
| R 1146 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16S 105JTH | J24189061 | | 1- | A | C5 |
| R 1147 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16S 471JTH | J24189021 | | 1- | A | C5 |
| R 1148 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | C5 |
| R 1149 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16S 105JTH | J24189061 | | 1- | B | e5 |
| R 1150 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16S 471JTH | J24189021 | | 1- | B | d5 |
| R 1151 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e5 |
| R 1152 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | e4 |
| R 1153 | CHIP RES. | 68k | 1/16W | 0.5% | RR0510R-683-D | J24189163 | | 1- | B | f4 |
| R 1154 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | B | f4 |
| R 1155 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f4 |
| R 1156 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f4 |
| R 1157 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | e4 |
| R 1158 | CHIP RES. | 68k | 1/16W | 0.5% | RR0510R-683-D | J24189163 | | 1- | B | f4 |
| R 1159 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | f4 |
| R 1160 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | B | f4 |
| R 1161 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f4 |
| R 1162 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f4 |
| R 1163 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e3 |
| R 1164 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16S 105JTH | J24189061 | | 1- | B | e4 |
| R 1165 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | C5 |
| R 1166 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16S 105JTH | J24189061 | | 1- | B | d5 |
| R 1167 | CHIP RES. | 1.5k | 1/16W | 0.5% | RR0510P-152-D | J24189123 | | 1- | B | f4 |
| R 1168 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | B4 |
| R 1169 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B4 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1170 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | B4 |
| R 1171 | CHIP RES. | 56k | 1/16W | 0.5% | RR0510R-563-D | J24189161 | | 1- | B | e4 |
| R 1172 | CHIP RES. | 2.7k | 1/16W | 0.5% | RR0510P-272-D | J24189129 | | 1- | B | e4 |
| R 1173 | CHIP RES. | 3.3k | 1/16W | 0.5% | RR0510P-332-D | J24189131 | | 1- | B | e4 |
| R 1174 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | B | e4 |
| R 1176 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | B4 |
| R 1177 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | d5 |
| R 1178 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | A | C5 |
| R 1179 | CHIP RES. | 2.7k | 1/16W | 0.5% | RR0510P-272-D | J24189129 | | 1- | B | e5 |
| R 1180 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | C5 |
| R 1181 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | C5 |
| R 1182 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | B5 |
| R 1183 | CHIP RES. | 56k | 1/16W | 0.5% | RR0510R-563-D | J24189161 | | 1- | B | d5 |
| R 1184 | CHIP RES. | 2.7k | 1/16W | 0.5% | RR0510P-272-D | J24189129 | | 1- | B | d5 |
| R 1185 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | f4 |
| R 1186 | CHIP RES. | 3.3k | 1/16W | 0.5% | RR0510P-332-D | J24189131 | | 1- | B | d5 |
| R 1187 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | B | d5 |
| R 1189 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | d5 |
| R 1190 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | C5 |
| R 1191 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d5 |
| R 1192 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d5 |
| R 1193 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d5 |
| R 1194 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d5 |
| R 1195 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d5 |
| R 1196 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d5 |
| R 1197 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d5 |
| R 1198 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | f4 |
| R 1203 | CHIP RES. | 12k | 1/16W | 5% | RMC1/16S 123JTH | J24189038 | | 1- | B | f4 |
| R 1204 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | f4 |
| R 1205 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | A4 |
| R 1206 | CHIP RES. | 68k | 1/16W | 0.5% | RR0510R-683-D | J24189163 | | 1- | B | f4 |
| R 1207 | CHIP RES. | 56k | 1/16W | 5% | RMC1/16S 563JTH | J24189046 | | 1- | A | A4 |
| R 1208 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | A4 |
| R 1209 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | A4 |
| R 1210 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f4 |
| R 1211 | CHIP RES. | 27k | 1/16W | 5% | RMC1/16S 273JTH | J24189042 | | 1- | B | f4 |
| R 1212 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | B | f4 |
| R 1213 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | A | A4 |
| R 1214 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f4 |
| R 1215 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | A3 |
| R 1216 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f4 |
| R 1217 | CHIP RES. | 330k | 1/16W | 5% | RMC1/16S 334JTH | J24189055 | | 1- | B | f4 |
| R 1218 | CHIP RES. | 330k | 1/16W | 5% | RMC1/16S 334JTH | J24189055 | | 1- | B | f4 |
| R 1219 | CHIP RES. | 68k | 1/16W | 0.5% | RR0510R-683-D | J24189163 | | 1- | B | f4 |
| R 1220 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | f4 |
| R 1221 | CHIP RES. | 56k | 1/16W | 5% | RMC1/16S 563JTH | J24189046 | | 1- | B | f4 |
| R 1222 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f4 |
| R 1223 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f4 |
| R 1224 | CHIP RES. | 27k | 1/16W | 5% | RMC1/16S 273JTH | J24189042 | | 1- | B | f4 |
| R 1225 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | B | f4 |
| R 1226 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | A3 |
| R 1227 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | B | f4 |
| R 1228 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f4 |
| R 1229 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | B3 |
| R 1230 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | B3 |
| R 1231 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | B3 |
| R 1232 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | B3 |
| R 1233 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | B3 |
| R 1234 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | A1 |
| R 1235 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | A1 |
| R 1236 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | A3 |
| R 1237 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | A3 |
| R 1238 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | A3 |
| R 1239 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | B3 |
| R 1240 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | A3 |
| R 1241 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | A3 |
| R 1242 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f4 |
| R 1243 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f4 |
| R 1244 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | B3 |
| R 1245 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | A | A4 |
| R 1246 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | A | A4 |
| R 1247 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | A4 |
| R 1248 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | A | A4 |
| R 1249 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | A | A4 |
| R 1250 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | A | A4 |
| R 1251 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | A | A4 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1252 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | B | g4 |
| R 1253 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | B | g4 |
| R 1254 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | g4 |
| R 1255 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | B | g4 |
| R 1256 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | B | f5 |
| R 1257 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | f5 |
| R 1258 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | f5 |
| R 1259 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f4 |
| R 1260 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f4 |
| R 1261 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | g1 |
| R 1262 | CHIP RES. | 270 | 1/16W | 5% | RMC1/16S 271JTH | J24189018 | | 1- | B | g1 |
| R 1263 | CHIP RES. | 270 | 1/16W | 5% | RMC1/16S 271JTH | J24189018 | | 1- | B | f1 |
| R 1264 | CHIP RES. | 270 | 1/16W | 5% | RMC1/16S 271JTH | J24189018 | | 1- | B | f1 |
| R 1265 | CHIP RES. | 270 | 1/16W | 5% | RMC1/16S 271JTH | J24189018 | | 1- | B | f1 |
| R 1266 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | f1 |
| R 1267 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f2 |
| R 1268 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | A | A2 |
| R 1269 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f2 |
| R 1270 | CHIP RES. | 12k | 1/16W | 5% | RMC1/16S 123JTH | J24189038 | | 1- | B | f2 |
| R 1271 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f2 |
| R 1272 | CHIP RES. | 12k | 1/16W | 5% | RMC1/16S 123JTH | J24189038 | | 1- | A | A2 |
| R 1273 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f2 |
| R 1274 | CHIP RES. | 12k | 1/16W | 5% | RMC1/16S 123JTH | J24189038 | | 1- | B | f2 |
| R 1275 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | f2 |
| R 1276 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f2 |
| R 1277 | CHIP RES. | 12k | 1/16W | 5% | RMC1/16S 123JTH | J24189038 | | 1- | B | f2 |
| R 1278 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | A2 |
| R 1279 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f3 |
| R 1280 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | f2 |
| R 1281 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | B | g2 |
| R 1282 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | B | g2 |
| R 1283 | CHIP RES. | 6.8M | 1/16W | 5% | MCR01MZSJ685 | J24189327 | | 1- | B | f2 |
| R 1284 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f2 |
| R 1285 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | f3 |
| R 1286 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | f3 |
| R 1287 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | f3 |
| R 1288 | CHIP RES. | 2.2M | 1/16W | 5% | RMC1/16S 225JTH | J24189065 | | 1- | B | f3 |
| R 1291 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | B | f3 |
| R 1292 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | B | f3 |
| R 1293 | CHIP RES. | 2.2M | 1/16W | 5% | RMC1/16S 225JTH | J24189065 | | 1- | A | B4 |
| R 1294 | CHIP RES. | 27k | 1/16W | 5% | RMC1/16S 273JTH | J24189042 | | 1- | A | B4 |
| R 1295 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | A | B4 |
| R 1296 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | B1 |
| R 1297 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | A1 |
| R 1298 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | B5 |
| R 1299 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | A1 |
| R 1300 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | B1 |
| R 1301 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | B4 |
| R 1302 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | f4 |
| R 1303 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | A4 |
| R 1304 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | B4 |
| R 1305 | CHIP RES. | 39k | 1/16W | 5% | RMC1/16S 393JTH | J24189044 | | 1- | A | B4 |
| R 1306 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | A | A4 |
| R 1307 | CHIP RES. | 56k | 1/16W | 0.5% | RR0510R-563-D | J24189161 | | 1- | A | A4 |
| R 1308 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | A | A4 |
| R 1309 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | e1 |
| R 1310 | CHIP RES. | 33 | 1/2W | 5% | RMC1/2 330JCTP | J24275330 | | 1- | B | e1 |
| R 1311 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e5 |
| R 1312 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e5 |
| R 1313 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1314 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | f5 |
| R 1315 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | B5 |
| R 1316 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e5 |
| R 1317 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1318 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | A2 |
| R 1319 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | B2 |
| R 1320 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | A2 |
| R 1321 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | A2 |
| R 1322 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | A2 |
| R 1323 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | f3 |
| R 1324 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | f3 |
| R 1325 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | f3 |
| R 1326 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | g3 |
| R 1327 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | g4 |
| R 1328 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | g4 |
| R 1329 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | f3 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1330 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | f4 |
| R 1331 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | f4 |
| R 1332 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | B | f3 |
| R 1333 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | f5 |
| R 1334 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16S 471JTH | J24189021 | | 1- | B | f5 |
| R 1335 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16S 105JTH | J24189061 | | 1- | B | f4 |
| R 1336 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1337 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1338 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | f5 |
| R 1339 | CHIP RES. | 2.2M | 1/16W | 5% | RMC1/16S 225JTH | J24189065 | | 1- | A | A4 |
| R 1340 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | A4 |
| R 1341 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | A4 |
| R 1342 | CHIP RES. | 3.9k | 1/16W | 5% | RMC1/16S 392JTH | J24189032 | | 1- | A | A4 |
| R 1343 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | A4 |
| R 1344 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | A4 |
| R 1345 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | A4 |
| R 1346 | CHIP RES. | 330k | 1/16W | 5% | RMC1/16S 334JTH | J24189055 | | 1- | A | A4 |
| R 1347 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | A4 |
| R 1348 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | A | A4 |
| R 1349 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | A | A4 |
| R 1350 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | A | A4 |
| R 1351 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | A | A4 |
| R 1352 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | B4 |
| R 1353 | CHIP RES. | 33k | 1/16W | 0.5% | RR0510R-333-D | J24189155 | | 1- | A | B4 |
| R 1354 | CHIP RES. | 56k | 1/16W | 0.5% | RR0510R-563-D | J24189161 | | 1- | A | B4 |
| R 1355 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B4 |
| R 1356 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | B | b5 |
| R 1357 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | b5 |
| R 1358 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | E5 |
| R 1359 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | E5 |
| R 1360 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | E4 |
| R 1361 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | E5 |
| R 1362 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | E4 |
| R 1363 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | E4 |
| R 1364 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | E5 |
| R 1365 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | E4 |
| R 1366 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | E4 |
| R 1367 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | E5 |
| R 1370 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A5 |
| R 1371 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1372 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | f5 |
| R 1373 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | f5 |
| R 1374 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A5 |
| R 1375 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | TYP: B1 | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | TYP: B2 | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | A2 DST: USA | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: A1 | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: A2 | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: C1 | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: C2 | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: D1 | 1- | A | A5 |
| R 1376 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: D2 | 1- | A | A5 |
| R 1377 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | TYP:B1 GRM | 1- | A | A5 |
| R 1377 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | TYP:B2 GRM | 1- | A | A5 |
| R 1377 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: B1 | 1- | A | A5 |
| R 1377 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: B2 | 1- | A | A5 |
| R 1377 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: C3 | 1- | A | A5 |
| R 1377 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: D1 | 1- | A | A5 |
| R 1377 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: D2 | 1- | A | A5 |
| R 1378 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: B3 | 1- | A | A5 |
| R 1378 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: C1 | 1- | A | A5 |
| R 1378 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: C2 | 1- | A | A5 |
| R 1378 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: C3 | 1- | A | A5 |
| R 1378 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: D1 | 1- | A | A5 |
| R 1378 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: D2 | 1- | A | A5 |
| R 1379 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: FH | 1- | A | A5 |
| R 1379 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: F | 1- | A | A5 |
| R 1382 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | A2 DST:USA | 1- | A | A5 |
| R 1383 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | TYP:B1 GRM | 1- | A | A5 |
| R 1383 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: FH | 1- | A | A5 |
| R 1383 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: A1 | 1- | A | A5 |
| R 1383 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: B1 | 1- | A | A5 |
| R 1383 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: C1 | 1- | A | A5 |
| R 1383 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: D1 | 1- | A | A5 |
| R 1383 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | VER: F | 1- | A | A5 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1384 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A5 |
| R 1385 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A5 |
| R 1386 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A5 |
| R 1387 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A5 |
| R 1388 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A4 |
| R 1389 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1390 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A4 |
| R 1391 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A4 |
| R 1392 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A4 |
| R 1393 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A4 |
| R 1394 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A4 |
| R 1395 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1396 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | A4 |
| R 1397 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1398 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1399 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1400 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1401 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1402 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1403 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f5 |
| R 1404 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | f5 |
| R 1405 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1406 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1407 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1408 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1409 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1410 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1411 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1412 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1413 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1414 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1415 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1416 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1417 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1418 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | A1 |
| R 1419 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | f3 |
| R 1420 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | A | B4 |
| R 1421 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | A | B4 |
| R 1422 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | A | B4 |
| R 1423 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | A | B5 |
| R 1424 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | A | B4 |
| R 1425 | CHIP RES. | 390k | 1/16W | 5% | RMC1/16S 394JTH | J24189056 | | 1- | A | B4 |
| R 1426 | CHIP RES. | 820k | 1/16W | 5% | RMC1/16S 824JTH | J24189060 | | 1- | A | B4 |
| R 1427 | CHIP RES. | 1.5M | 1/16W | 5% | RMC1/16S 155JTH | J24189063 | | 1- | A | A4 |
| R 1428 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1429 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1430 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f5 |
| R 1431 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | B | f5 |
| R 1432 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | B | f3 |
| R 1433 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | B | f3 |
| R 1434 | CHIP RES. | 2.2k | 1/16W | 0.5% | RR0510P-222-D | J24189127 | | 1- | B | e3 |
| R 1435 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B5 |
| R 1436 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e4 |
| R 1437 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | e4 |
| R 1438 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | B4 |
| R 1439 | CHIP RES. | 82k | 1/16W | 5% | RMC1/16S 823JTH | J24189048 | | 1- | A | B3 |
| R 1440 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | B4 |
| R 1441 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | e3 |
| R 1442 | CHIP RES. | 39k | 1/16W | 5% | RMC1/16S 393JTH | J24189044 | | 1- | B | e4 |
| R 1443 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e4 |
| R 1444 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | A | C5 |
| R 1445 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | B4 |
| R 1446 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | e4 |
| R 1447 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | B | e4 |
| R 1448 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | C3 |
| R 1449 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | C3 |
| R 1450 | CHIP RES. | 680k | 1/16W | 5% | RMC1/16S 684JTH | J24189059 | | 1- | A | C4 |
| R 1451 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | A | C4 |
| R 1452 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | A | B4 |
| R 1453 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | d4 |
| R 1454 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | d3 |
| R 1455 | CHIP RES. | 120k | 1/16W | 5% | RMC1/16S 124JTH | J24189050 | | 1- | B | e4 |
| R 1456 | CHIP RES. | 82k | 1/16W | 5% | RMC1/16S 823JTH | J24189048 | | 1- | B | e4 |
| R 1457 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e4 |
| R 1458 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | e4 |
| R 1459 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e4 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1460 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | C3 |
| R 1461 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | C3 |
| R 1462 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | C3 |
| R 1463 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | C4 |
| R 1464 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | A | B4 |
| R 1465 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | C4 |
| R 1466 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | C4 |
| R 1467 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | C4 |
| R 1468 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | e4 |
| R 1469 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | C4 |
| R 1470 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | B | e4 |
| R 1471 | CHIP RES. | 330k | 1/16W | 5% | RMC1/16S 334JTH | J24189055 | | 1- | B | e4 |
| R 1472 | CHIP RES. | 82k | 1/16W | 5% | RMC1/16S 823JTH | J24189048 | | 1- | B | e4 |
| R 1473 | CHIP RES. | 18k | 1/16W | 5% | RMC1/16S 183JTH | J24189040 | | 1- | B | e4 |
| R 1474 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16S 681JTH | J24189023 | | 1- | A | C4 |
| R 1475 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16S 681JTH | J24189023 | | 1- | A | C4 |
| R 1476 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | A | C4 |
| R 1477 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | | 1- | A | C4 |
| R 1478 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | c5 |
| R 1479 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | c5 |
| R 1480 | CHIP RES. | 680k | 1/16W | 5% | RMC1/16S 684JTH | J24189059 | | 1- | B | c5 |
| R 1481 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | c5 |
| R 1482 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | c5 |
| R 1483 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | c5 |
| R 1485 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d4 |
| R 1486 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | d5 |
| R 1488 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | d5 |
| R 1489 | CHIP RES. | 120k | 1/16W | 5% | RMC1/16S 124JTH | J24189050 | | 1- | B | d5 |
| R 1490 | CHIP RES. | 82k | 1/16W | 5% | RMC1/16S 823JTH | J24189048 | | 1- | B | d5 |
| R 1491 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | d4 |
| R 1492 | CHIP RES. | 120k | 1/16W | 5% | RMC1/16S 124JTH | J24189050 | | 1- | B | c5 |
| R 1493 | CHIP RES. | 82k | 1/16W | 5% | RMC1/16S 823JTH | J24189048 | | 1- | B | c5 |
| R 1494 | CHIP RES. | 6.8k | 1/16W | 5% | RMC1/16S 682JTH | J24189035 | | 1- | B | d5 |
| R 1495 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c5 |
| R 1496 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c5 |
| R 1497 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c5 |
| R 1498 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | c5 |
| R 1499 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | c5 |
| R 1500 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | c5 |
| R 1501 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | c5 |
| R 1502 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | c5 |
| R 1503 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | c5 |
| R 1504 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16S 681JTH | J24189023 | | 1- | B | c5 |
| R 1505 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | d5 |
| R 1506 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16S 681JTH | J24189023 | | 1- | B | d5 |
| R 1508 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | d5 |
| R 1509 | CHIP RES. | 330k | 1/16W | 5% | RMC1/16S 334JTH | J24189055 | | 1- | B | d4 |
| R 1510 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | c5 |
| R 1511 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | B | d5 |
| R 1512 | CHIP RES. | 18k | 1/16W | 5% | RMC1/16S 183JTH | J24189040 | | 1- | B | d4 |
| R 1513 | CHIP RES. | 82k | 1/16W | 5% | RMC1/16S 823JTH | J24189048 | | 1- | B | d5 |
| R 1515 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | D5 |
| R 1516 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | C4 |
| R 1517 | CHIP RES. | 560k | 1/16W | 5% | RMC1/16S 564JTH | J24189058 | | 1- | B | d4 |
| R 1518 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | B | d4 |
| R 1519 | CHIP RES. | 3.3k | 1/16W | 5% | RMC1/16S 332JTH | J24189031 | | 1- | B | d4 |
| R 1520 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | B | d4 |
| R 1521 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d4 |
| R 1522 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | d4 |
| R 1523 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16S 471JTH | J24189021 | | 1- | B | d4 |
| R 1524 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | d4 |
| R 1525 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16S 681JTH | J24189023 | | 1- | B | d4 |
| R 1526 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | C4 |
| R 1527 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | A | C4 |
| R 1528 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | C4 |
| R 1529 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | D4 |
| R 1530 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | D4 |
| R 1531 | CHIP RES. | 3.3k | 1/16W | 5% | RMC1/16S 332JTH | J24189031 | | 1- | A | C4 |
| R 1532 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | C4 |
| R 1533 | CHIP RES. | 270k | 1/16W | 5% | RMC1/16S 274JTH | J24189054 | | 1- | B | d4 |
| R 1534 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | B | d4 |
| R 1535 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | d4 |
| R 1536 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | B | d4 |
| R 1537 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d4 |
| R 1538 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d4 |

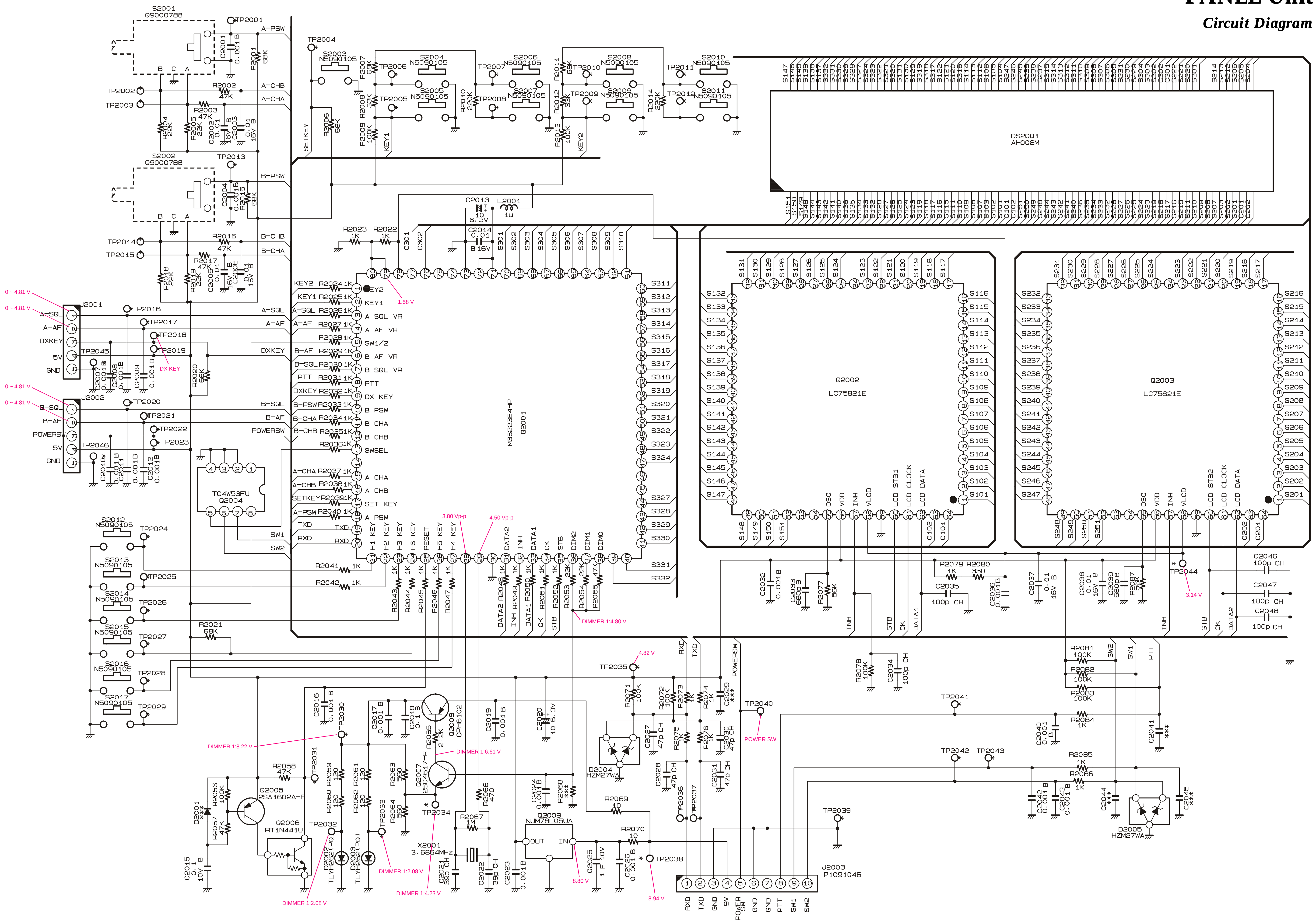
| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1539 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | B | d4 |
| R 1540 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d4 |
| R 1541 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | d4 |
| R 1542 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | C4 |
| R 1543 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | A | D4 |
| R 1544 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | D4 |
| R 1545 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | C4 |
| R 1546 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | D5 |
| R 1547 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | A | D5 |
| R 1548 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | D5 |
| R 1549 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16S 681JTH | J24189023 | | 1- | A | D5 |
| R 1550 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | D5 |
| R 1551 | CHIP RES. | 820 | 1/16W | 5% | RMC1/16S 821JTH | J24189024 | | 1- | A | D5 |
| R 1552 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | A | D5 |
| R 1553 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | E5 |
| R 1554 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | E5 |
| R 1555 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | e4 |
| R 1556 | CHIP RES. | 3.3k | 1/16W | 5% | RMC1/16S 332JTH | J24189031 | | 1- | A | D5 |
| R 1559 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | D5 |
| R 1560 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | D5 |
| R 1561 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | A | D5 |
| R 1562 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | D5 |
| R 1563 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | D5 |
| R 1564 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | D5 |
| R 1565 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | D5 |
| R 1566 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | A | D5 |
| R 1567 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | c5 |
| R 1568 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | c5 |
| R 1569 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | A | E5 |
| R 1570 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | E5 |
| R 1573 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c5 |
| R 1574 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | c4 |
| R 1575 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | c4 |
| R 1576 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | c4 |
| R 1577 | CHIP RES. | 39k | 1/16W | 0.5% | RR0510R-393-D | J24189157 | | 1- | B | d4 |
| R 1578 | CHIP RES. | 560 | 1/16W | 0.5% | RR0510P-561-D | J24189113 | | 1- | B | c4 |
| R 1579 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | c5 |
| R 1580 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | B | c4 |
| R 1581 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | c4 |
| R 1582 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16S 681JTH | J24189023 | | 1- | B | c4 |
| R 1583 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | c4 |
| R 1584 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c4 |
| R 1585 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | D5 |
| R 1586 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | c4 |
| R 1587 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | E5 |
| R 1588 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | A | D4 |
| R 1589 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c5 |
| R 1590 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | c4 |
| R 1591 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | B | c4 |
| R 1592 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | c4 |
| R 1593 | CHIP RES. | 680 | 1/16W | 5% | RMC1/16S 681JTH | J24189023 | | 1- | B | b4 |
| R 1594 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | c5 |
| R 1595 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c5 |
| R 1596 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | b5 |
| R 1597 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | E5 |
| R 1598 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | A | E5 |
| R 1599 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | D4 |
| R 1600 | CHIP RES. | 220 | 1/2W | 5% | RMC1/2 221JCTP | J24275221 | | 1- | B | d3 |
| R 1601 | CHIP RES. | 68 | 1W | 5% | RMC1 680JTE | J24305680 | | 1- | B | b2 |
| R 1602 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b2 |
| R 1603 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b2 |
| R 1604 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b2 |
| R 1605 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b2 |
| R 1607 | CHIP RES. | 82 | 1/16W | 5% | RMC1/16S 820JTH | J24189012 | | 1- | A | F3 |
| R 1608 | CHIP RES. | 82 | 1/16W | 5% | RMC1/16S 820JTH | J24189012 | | 1- | B | a1 |
| R 1609 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | b1 |
| R 1610 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | B | b4 |
| R 1611 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b1 |
| R 1612 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b2 |
| R 1613 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b2 |
| R 1614 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | a1 |
| R 1615 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | B | b4 |
| R 1617 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | c3 |
| R 1618 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b3 |
| R 1619 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b3 |
| R 1620 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c2 |

# MAIN Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1621 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c3 |
| R 1622 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c3 |
| R 1623 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c3 |
| R 1624 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b3 |
| R 1625 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | b3 |
| R 1626 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | B | b4 |
| R 1627 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | a1 |
| R 1628 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | f3 |
| R 1629 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f3 |
| R 1630 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | f3 |
| R 1631 | CHIP RES. | 2.2M | 1/16W | 5% | RMC1/16S 225JTH | J24189065 | | 1- | B | f3 |
| R 1632 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | f3 |
| R 1633 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | B | f3 |
| R 1634 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e3 |
| R 1635 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c3 |
| R 1636 | CHIP RES. | 330k | 1/16W | 5% | RMC1/16S 334JTH | J24189055 | | 1- | B | e3 |
| R 1637 | CHIP RES. | 3.3k | 1/16W | 5% | RMC1/16S 332JTH | J24189031 | | 1- | B | e3 |
| R 1638 | CHIP RES. | 6.8k | 1/16W | 5% | RMC1/16S 682JTH | J24189035 | | 1- | B | e3 |
| R 1639 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | e3 |
| R 1640 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | c3 |
| R 1641 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | | 1- | A | E4 |
| R 1650 | CHIP RES. | 8.2k | 1/16W | 5% | RMC1/16S 822JTH | J24189036 | | 1- | B | e3 |
| R 1651 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | e1 |
| R 1652 | CHIP RES. | 82 | 1/16W | 5% | RMC1/16S 820JTH | J24189012 | | 1- | B | e1 |
| R 1654 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | e2 |
| R 1655 | CHIP RES. | 68 | 1/16W | 5% | RMC1/16S 680JTH | J24189011 | | 1- | B | e2 |
| R 1656 | CHIP RES. | 3.9k | 1/16W | 5% | RMC1/16S 392JTH | J24189032 | | 1- | B | e2 |
| R 1657 | CHIP RES. | 68 | 1/16W | 5% | RMC1/16S 680JTH | J24189011 | | 1- | B | e2 |
| R 1658 | CHIP RES. | 220 | 1/4W | 5% | RMC1/4 221JATP | J24245221 | | 1- | B | e2 |
| R 1664 | CHIP RES. | 220 | 1/2W | 5% | RMC1/2 221JCTP | J24275221 | | 1- | B | e3 |
| R 1665 | CHIP RES. | 470 | 1/2W | 5% | RMC1/2 471JCTP | J24275471 | | 1- | B | d1 |
| R 1666 | METAL FILM RES. | 470 | 3W | 5% | ERG-3SJ471 470 | J22359009 | | 1- | B | e2 |
| R 1667 | CHIP RES. | 8.2k | 1/16W | 5% | RMC1/16S 822JTH | J24189036 | | 1- | B | e3 |
| R 1668 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | e3 |
| R 1669 | CHIP RES. | 12k | 1/16W | 5% | RMC1/16S 123JTH | J24189038 | | 1- | B | d3 |
| R 1670 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | e3 |
| R 1671 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | D3 |
| R 1672 | CHIP RES. | 82 | 1/16W | 5% | RMC1/16S 820JTH | J24189012 | | 1- | B | d3 |
| R 1673 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | c3 |
| R 1674 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | B | d3 |
| R 1675 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | c3 |
| R 1676 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | B | d3 |
| R 1677 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | d3 |
| R 1678 | CHIP RES. | 150 | 1/16W | 5% | RMC1/16S 151JTH | J24189015 | | 1- | B | d3 |
| R 1679 | CHIP RES. | 47 | 1/16W | 5% | RMC1/16S 470JTH | J24189009 | | 1- | B | d3 |
| R 1680 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | d3 |
| R 1681 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | d3 |
| R 1682 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | D3 |
| R 1683 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | D3 |
| R 1684 | CHIP RES. | 27k | 1/16W | 5% | RMC1/16S 273JTH | J24189042 | | 1- | B | e3 |
| R 1685 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | B | d3 |
| R 1686 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | e3 |
| R 1687 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | C3 |
| R 1688 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | C3 |
| R 1689 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16S 471JTH | J24189021 | | 1- | A | C3 |
| R 1690 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16S 471JTH | J24189021 | | 1- | A | C3 |
| R 1691 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | D3 |
| R 1692 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | d3 |
| R 1693 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d3 |
| R 1694 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d3 |
| R 1695 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | C2 |
| R 1696 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | G3 |
| R 1697 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | a4 |
| R 1698 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | G4 |
| R 1699 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | B1 |
| R 1700 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | A | B1 |
| R 1701 | CHIP RES. | 82 | 1/16W | 5% | RMC1/16S 820JTH | J24189012 | | 1- | B | e1 |
| R 1702 | CHIP RES. | 82 | 1/16W | 5% | RMC1/16S 820JTH | J24189012 | | 1- | B | d3 |
| R 1703 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | d3 |
| R 1704 | CHIP RES. | 150 | 1/16W | 5% | RMC1/16S 151JTH | J24189015 | | 1- | A | D4 |
| R 1705 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | e5 |
| R 1706 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e5 |
| R 1707 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | e5 |
| R 1708 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e5 |
| R 1709 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d5 |
| R 1710 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | B | d5 |

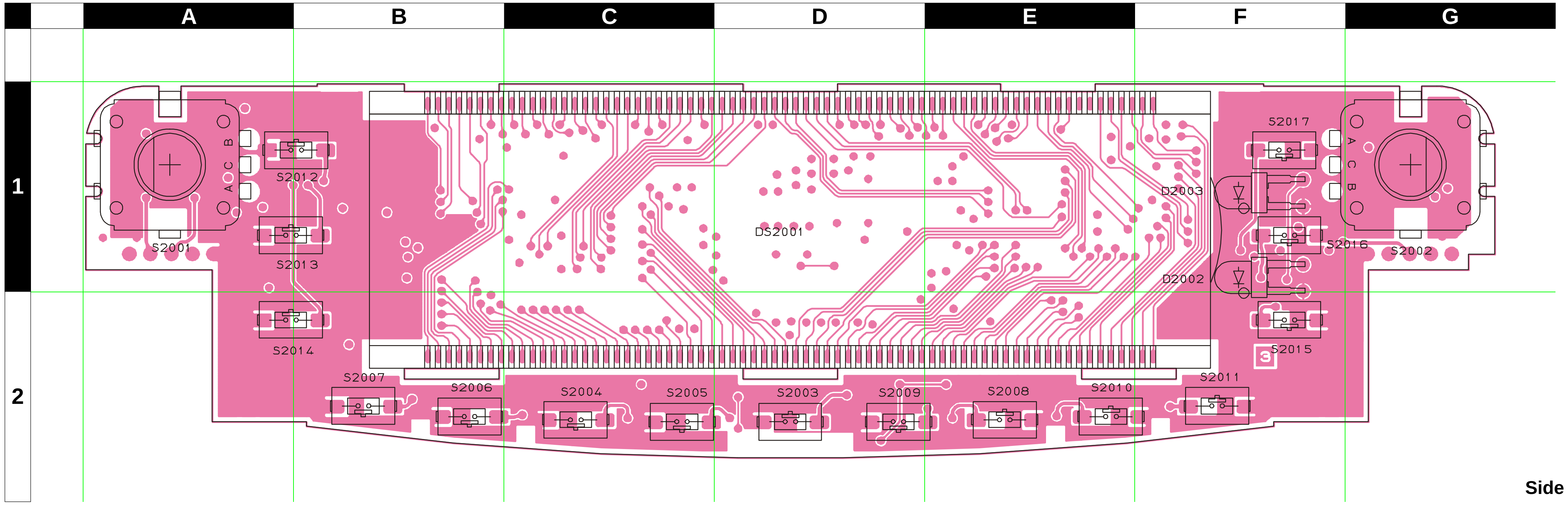
| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 1711 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16S 471JTH | J24189021 | | 1- | A | E5 |
| R 1712 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | A | C4 |
| R 1713 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | A | A2 |
| R 1714 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | A1 |
| R 1715 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | d3 |
| R 1716 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | d3 |
| R 1717 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | A | D4 |
| R 1718 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | C4 |
| R 1719 | CHIP RES. | 100k | 1/16W | 0.5% | RR0510R-104-D | J24189167 | | 1- | B | c4 |
| R 1720 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | f4 |
| R 1721 | CHIP RES. | 3.3k | 1/16W | 0.5% | RR0510P-332-D | J24189131 | | 1- | B | d5 |
| R 1722 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | d5 |
| R 1723 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | A | C4 |
| R 1725 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d3 |
| R 1726 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | e3 |
| R 1727 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | B | b2 |
| R 1728 | CHIP RES. | 220 | 1/16W | 5% | RMC1/16S 221JTH | J24189017 | | 1- | B | b2 |
| R 1729 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | B | c3 |
| R 1730 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e5 |
| R 1731 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | f2 |
| R 1732 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | A4 |
| R 1733 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | B | c3 |
| R 1734 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | D3 |
| R 1736 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | A | B2 |
| R 1737 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | A | B2 |
| R 1738 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | A | B2 |
| R 1739 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | E5 |
| R 1740 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | A | E5 |
| R 1745 | CHIP RES. | 470k | 1/16W | 5% | RMC1/16S 474JTH | J24189057 | | 1- | | |
| R 1747 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16 101JATP | J24185101 | | 1- | | |
| RL1001 | RELAY | | DC12V | | G5A-237P DC12V | M1190067 | | 1- | A | F1 |
| RL1002 | RELAY | | DC12V | | G5A-237P DC12V | M1190067 | | 1- | A | E3 |
| RL1003 | RELAY | | DC12V | | G5A-237P DC12V | M1190067 | | 1- | A | F4 |
| TH1001 | THERMISTOR | | | | TBPS1R103K440H5Q | G9090067 | | 1- | A | C3 |
| TH1002 | THERMISTOR | | | | TBPS1R103K440H5Q | G9090067 | | 1- | B | d4 |
| TH1003 | THERMISTOR | | | | TBPS1R473K475H5Q | G9090068 | | 1- | B | d4 |
| TH1004 | THERMISTOR | | | | TBPS1R473K475H5Q | G9090068 | | 1- | B | d5 |
| TH1005 | THERMISTOR | | | | TBPS1R103K440H5Q | G9090067 | | 1- | B | d5 |
| X 1001 | XTAL CSA-310 | 3.6864MHz | | | 3.6864MHZ | H0102988 | | 1- | A | A4 |
| X 1002 | XTAL TSS-6 | 11.7MHz | | | TSS-5032A 11.7MHZ | H0103264 | | 1- | B | e4 |
| X 1003 | XTAL TSS-5032A | 11.15MHz | | | 11.15MHZ | H0103268 | | 1- | B | c5 |
| XF1001 | XTAL FILTER | | | | MFT47R 47.25MHZ | H1102352 | | 1- | A | C4 |
| XF1002 | XTAL FILTER | | | | MFT45R6 45.05MHZ | H1102351 | | 1- | B | b5 |
| | GROUND PLATE | | | | | RA0415200 | | 1- | | |
| | SHIELD CASE VCO | | | | | RA0272500 | | 1- | | |



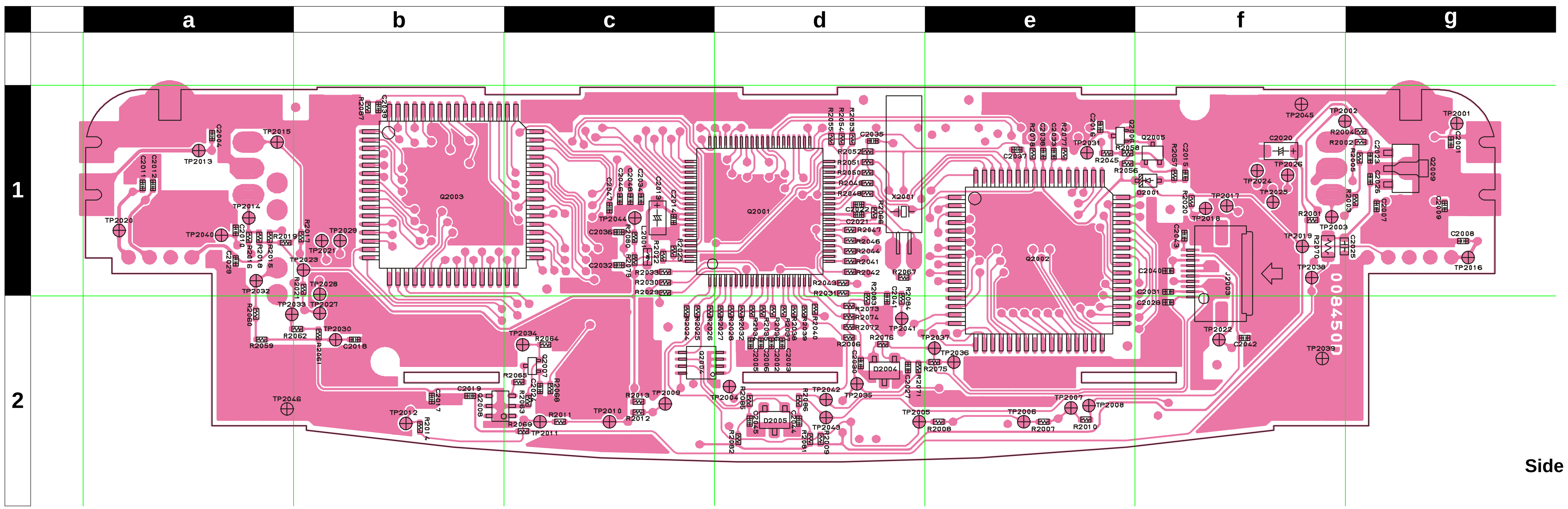
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Q2008 CPH6102
Q2009 NJM78L05UA
X2001 3.6864MHz
D2004 HZM27WA
D2005 HZM27WA
DX KEY
POWER SW
DIMMER 1:8.22 V
DIMMER 1:6.61 V
DIMMER 1:4.80 V
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DIMMER 1:4.23 V
RXD TXD GND 9V POWER SW GND GND PTT SW1 SW2

# PANEL Unit

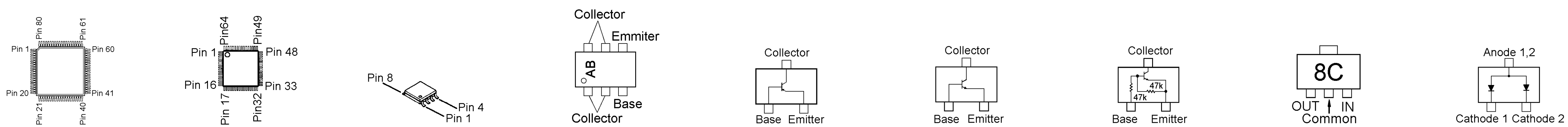
*Circuit Diagram*




Side A




Side B




M38223E4HP (Q2001) | LC75821E (Q2002, 2003) | TC4W53FU (Q2004) | CPH6102 (Q2004) | 2SA1602A (MF) (Q2005) | 2SC4617 (BR) (Q2007) | RT1N441U (N3) (Q2006) | NJM78L05 (8C) (Q2009) | HZM27WA (N3) (D2004, 2005)

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| | PCB with Components | | | | | CB2131001 | | | | |
| | Printed Circuit Board | | | | AH008M000 | FR0084500 | | 1- | | |
| C 2001 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g1 |
| C 2002 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | B | d2 |
| C 2003 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | B | d2 |
| C 2004 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a1 |
| C 2005 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | B | d2 |
| C 2006 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | B | d2 |
| C 2007 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g1 |
| C 2008 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g1 |
| C 2009 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g1 |
| C 2010 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a1 |
| C 2011 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a1 |
| C 2012 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | a1 |
| C 2013 | CHIP TA.CAP. | 10uF | 6.3V | | TEMSVA0J106M-8R | K78080027 | | 1- | B | c1 |
| C 2014 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | c1 |
| C 2015 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | f1 |
| C 2016 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | e1 |
| C 2017 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b2 |
| C 2018 | CHIP CAP. | 0.1uF | 10V | B | GRM36B104K10PT | K22108802 | | 1- | B | b2 |
| C 2019 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | b2 |
| C 2020 | CHIP TA.CAP. | 10uF | 6.3V | | TEMSVA0J106M-8R | K78080027 | | 1- | B | f1 |
| C 2021 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | d1 |
| C 2022 | CHIP CAP. | 39pF | 50V | CH | GRM36CH390J50PT | K22178226 | | 1- | B | d1 |
| C 2023 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g1 |
| C 2024 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c2 |
| C 2025 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | B | f1 |
| C 2026 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | g1 |
| C 2027 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | d2 |
| C 2028 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | f2 |
| C 2030 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | d2 |
| C 2031 | CHIP CAP. | 47pF | 50V | CH | GRM36CH470J50PT | K22178228 | | 1- | B | f1 |
| C 2032 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c1 |
| C 2033 | CHIP CAP. | 680pF | 50V | B | GRM36B681K50PT | K22178807 | | 1- | B | e1 |
| C 2034 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | c1 |
| C 2035 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | d1 |
| C 2036 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | c1 |
| C 2037 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e1 |
| C 2038 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | e1 |
| C 2039 | CHIP CAP. | 680pF | 50V | B | GRM36B681K50PT | K22178807 | | 1- | B | b1 |
| C 2040 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f1 |
| C 2042 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f2 |
| C 2043 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | B | f1 |
| C 2046 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | c1 |
| C 2047 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | c1 |
| C 2048 | CHIP CAP. | 100pF | 50V | CH | GRM36CH101J50PT | K22178236 | | 1- | B | c1 |
| D 2002 | LED | | | | TLYH262(PQ) | G2090777 | | 1- | A | F1 |
| D 2003 | LED | | | | TLYH262(PQ) | G2090777 | | 1- | A | F1 |
| D 2004 | DIODE | | | | HZM27WA-TR | G2070530 | | 1- | B | d2 |
| D 2005 | DIODE | | | | HZM27WA-TR | G2070530 | | 1- | B | d2 |
| D 2006 | DIODE | | | | UDZS TE-17 6.8B | G2070888 | | 1- | | |
| DS2001 | LCD | | | | AH008M | G6090147 | | 1- | A | D1 |
| J 2003 | CONNECTOR | | | | IL-FHR-10S-HF-E3000 | P1091046 | | 1- | B | f1 |
| L 2001 | M.RFC | 1uH | | | LK1608 1R0K-T | L1690687 | | 1- | B | c1 |
| Q 2001 | IC | | | | M38223E4HP R0660 | G1093477 | | 1 | B | d1 |
| Q 2002 | IC | | | | LC75821E | G1092191 | | 1- | B | e1 |
| Q 2003 | IC | | | | LC75821E | G1092191 | | 1- | B | b1 |
| Q 2004 | IC | | | | TC4W53FU TE12L | G1091675 | | 1- | B | c2 |
| Q 2005 | TRANSISTOR | | | | 2SA1602A-T11-1F | G3116028F | | 1- | B | f1 |
| Q 2006 | TRANSISTOR | | | | RT1N441U-T11-1 | G3070247 | | 1- | B | e1 |
| Q 2007 | TRANSISTOR | | | | 2SC4617 TL R | G3346178R | | 1- | B | c2 |
| Q 2008 | TRANSISTOR | | | | CPH6102-TL | G3070223 | | 1- | B | b2 |
| Q 2009 | IC | | | | NJM78L05UA TE1 | G1091325 | | 1- | B | g1 |
| R 2001 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | f1 |
| R 2002 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | g1 |
| R 2003 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | g1 |
| R 2004 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | g1 |
| R 2005 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | g1 |
| R 2006 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | d2 |
| R 2007 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | e2 |
| R 2008 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | e2 |
| R 2009 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | d2 |
| R 2010 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | e2 |
| R 2011 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | c2 |
| R 2012 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | B | c2 |
| R 2013 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | c2 |

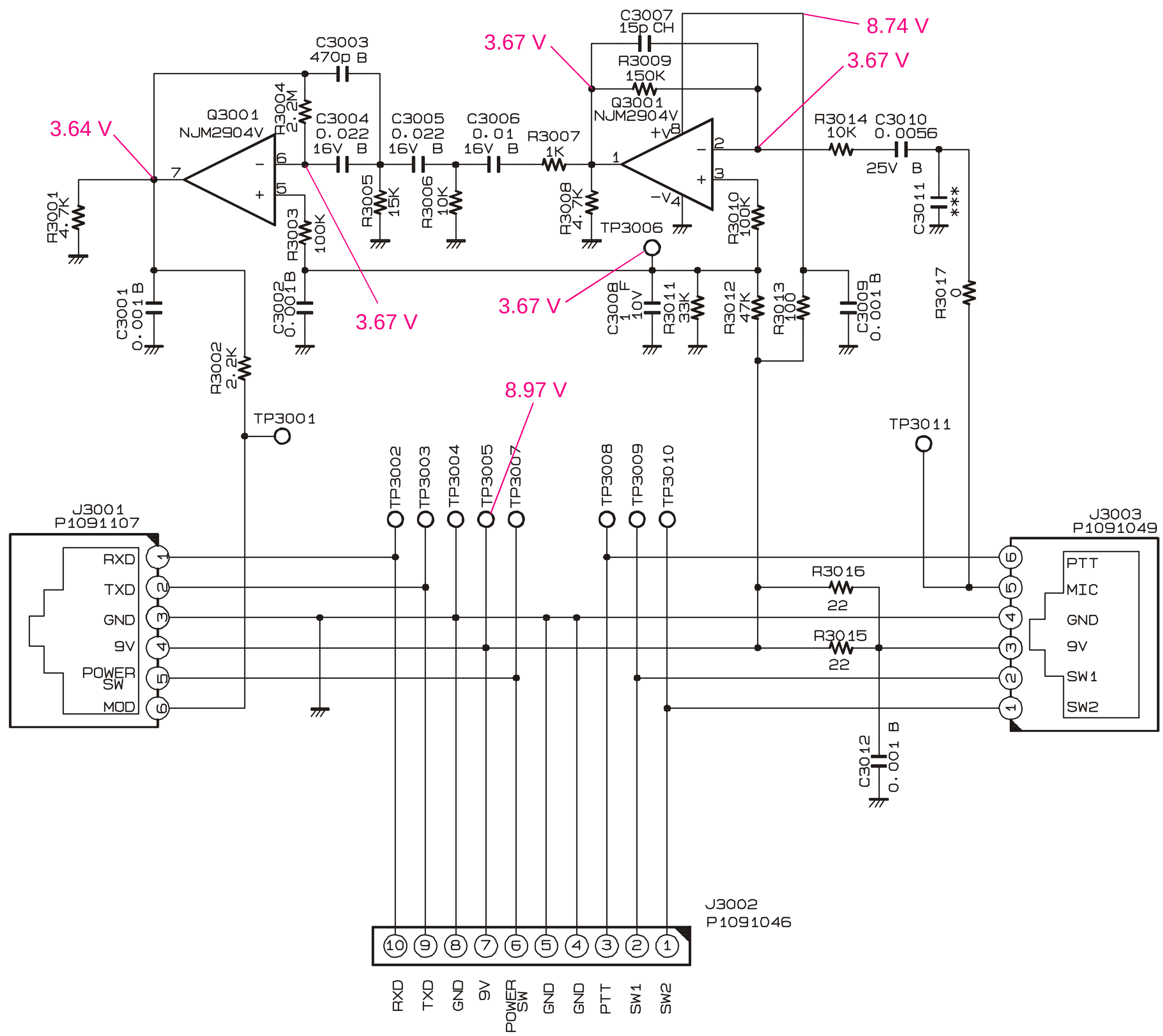
# PANEL Unit

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| R 2014 | CHIP RES. | 220k | 1/16W | 5% | RMC1/16S 224JTH | J24189053 | | 1- | B | b2 |
| R 2015 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | a1 |
| R 2016 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | a1 |
| R 2017 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | b1 |
| R 2018 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | a1 |
| R 2019 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | a1 |
| R 2020 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | f1 |
| R 2021 | CHIP RES. | 68k | 1/16W | 5% | RMC1/16S 683JTH | J24189047 | | 1- | B | b1 |
| R 2022 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c1 |
| R 2023 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c1 |
| R 2024 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c2 |
| R 2025 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c2 |
| R 2026 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c2 |
| R 2027 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2028 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2029 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c1 |
| R 2030 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c1 |
| R 2031 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2032 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2033 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c1 |
| R 2034 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2035 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2036 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2037 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2038 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2039 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2040 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2041 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2042 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2043 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2044 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2045 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e1 |
| R 2046 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2047 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2048 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2049 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2050 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2051 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2052 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d1 |
| R 2053 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d1 |
| R 2054 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | d1 |
| R 2055 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | d1 |
| R 2056 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e1 |
| R 2057 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | f1 |
| R 2058 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | B | e1 |
| R 2059 | CHIP RES. | 120 | 1/16W | 5% | RMC1/16S 121JTH | J24189014 | | 1- | B | a2 |
| R 2060 | CHIP RES. | 120 | 1/16W | 5% | RMC1/16S 121JTH | J24189014 | | 1- | B | a2 |
| R 2061 | CHIP RES. | 120 | 1/16W | 5% | RMC1/16S 121JTH | J24189014 | | 1- | B | b2 |
| R 2062 | CHIP RES. | 120 | 1/16W | 5% | RMC1/16S 121JTH | J24189014 | | 1- | B | b2 |
| R 2063 | CHIP RES. | 560 | 1/16W | 5% | RMC1/16S 561JTH | J24189022 | | 1- | B | c2 |
| R 2064 | CHIP RES. | 560 | 1/16W | 5% | RMC1/16S 561JTH | J24189022 | | 1- | B | c2 |
| R 2065 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | B | c2 |
| R 2066 | CHIP RES. | 470 | 1/16W | 5% | RMC1/16S 471JTH | J24189021 | | 1- | B | d1 |
| R 2067 | CHIP RES. | 1M | 1/16W | 5% | RMC1/16S 105JTH | J24189061 | | 1- | B | d1 |
| R 2069 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | B | c2 |
| R 2070 | CHIP RES. | 10 | 1/10W | 5% | RMC1/10T 100J | J24205100 | | 1- | B | f1 |
| R 2071 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | d2 |
| R 2072 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | d2 |
| R 2073 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2074 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2075 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | e2 |
| R 2076 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2077 | CHIP RES. | 56k | 1/16W | 5% | RMC1/16S 563JTH | J24189046 | | 1- | B | e1 |
| R 2078 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | e1 |
| R 2079 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | c1 |
| R 2080 | CHIP RES. | 330 | 1/16W | 5% | RMC1/16S 331JTH | J24189019 | | 1- | B | c1 |
| R 2081 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | d2 |
| R 2082 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | d2 |
| R 2083 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | B | d2 |
| R 2084 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2085 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2086 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | d2 |
| R 2087 | CHIP RES. | 56k | 1/16W | 5% | RMC1/16S 563JTH | J24189046 | | 1- | B | b1 |
| S 2001 | ROTARY ENCODER | | | | EC12E2424404 | Q9000788 | | 1- | A | A1 |
| S 2002 | ROTARY ENCODER | | | | EC12E2424404 | Q9000788 | | 1- | A | G1 |
| S 2003 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | D2 |

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| S 2004 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | C2 |
| S 2005 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | C2 |
| S 2006 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | B2 |
| S 2007 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | B2 |
| S 2008 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | E2 |
| S 2009 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | D2 |
| S 2010 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | E2 |
| S 2011 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | F2 |
| S 2012 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | B1 |
| S 2013 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | A1 |
| S 2014 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | A2 |
| S 2015 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | F2 |
| S 2016 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | F1 |
| S 2017 | TACT SWITCH | | | | SKQMAL | N5090105 | | 1- | A | F1 |
| X 2001 | XTAL CSA-310 | 3.6864MHz | | | 3.6864MHZ | H0102988 | | 1- | B | d1 |

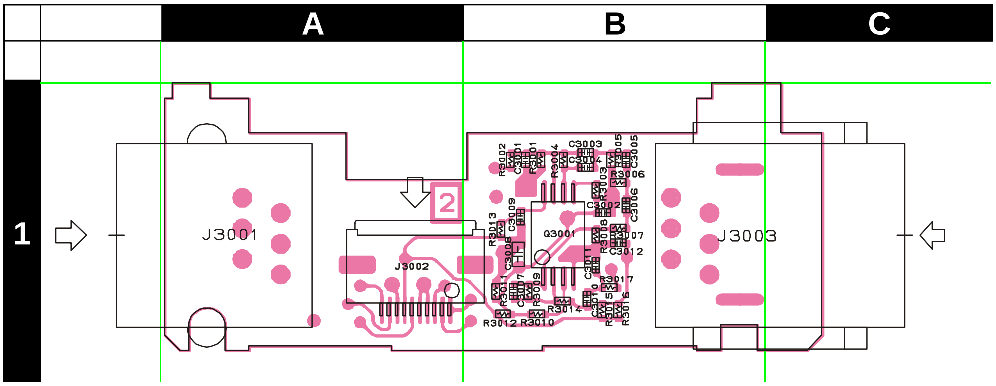
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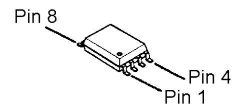


3.64 V
3.67 V
3.67 V
3.67 V
3.67 V
8.74 V
8.97 V
Q3001
NJM2904V
R3001
4.7K
C3001
0.001 B
R3002
2.2K
C3002
0.001B
R3003
100K
R3004
2.2M
C3003
470p B
C3004
0.022
16V B
C3005
0.022
16V B
C3006
0.01
16V B
R3005
15K
R3006
10K
R3007
1K
R3008
4.7K
C3007
15p CH
R3009
150K
R3010
100K
C3008
1
10V
F
R3011
33K
R3012
47K
R3013
100
C3009
0.001 B
R3014
10K
C3010
0.0056
25V B
C3011
***
R3017
0
R3015
22
R3016
22
C3012
0.001 B
TP3001
TP3002
TP3003
TP3004
TP3005
TP3006
TP3007
TP3008
TP3009
TP3010
TP3011
J3001
P1091107
RXD
TXD
GND
9V
POWER SW
MOD
J3003
P1091049
PTT
MIC
GND
9V
SW1
SW2
J3002
P1091046
RXD
TXD
GND
9V
POWER SW
GND
GND
PTT
SW1
SW2

# PANEL-SUB Unit

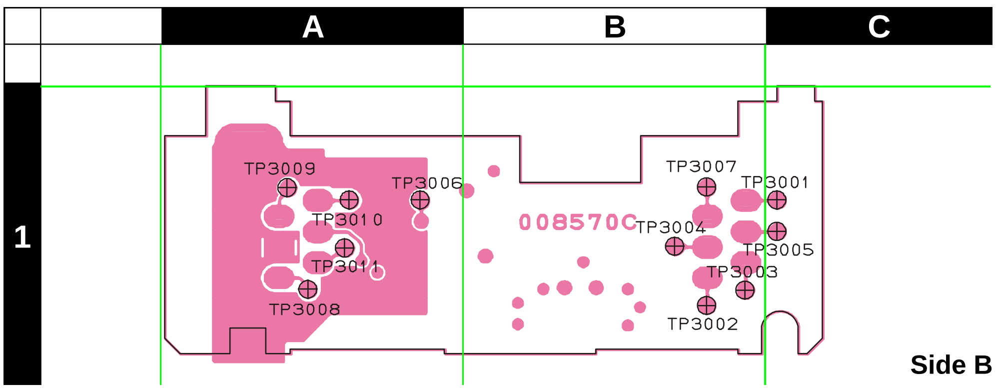
## *Parts Layout*




NJM2904V
(Q 3001)

**Side A**

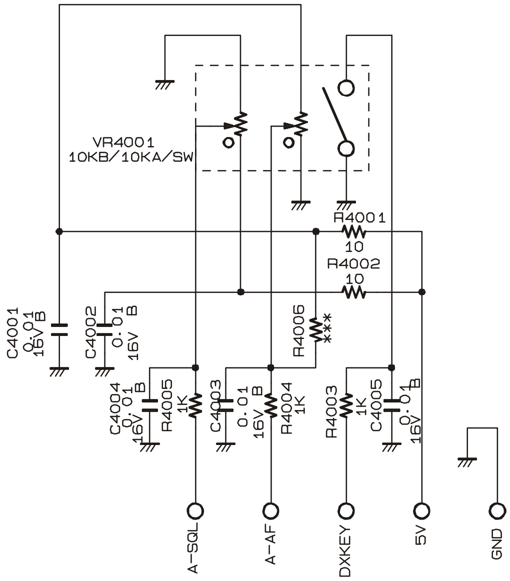



**Side B**

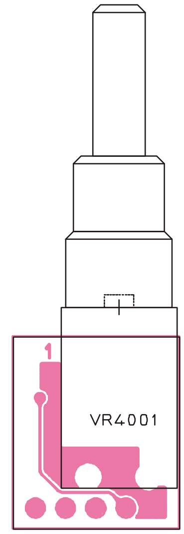
## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| | PCB with Components | | | | | CB2132003 | DST: USA | | | |
| | | | | | | CB2132004 | DST: EXP | | | |
| | | | | | | CB2132005 | DST: FRG | | | |
| | Printed Circuit Board | | | | AH008M000 | FR0085700 | | 1- | | |
| C 3001 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B1 |
| C 3002 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B1 |
| C 3003 | CHIP CAP. | 470pF | 50V | B | GRM36B471K50PT | K22178805 | | 1- | A | B1 |
| C 3004 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | A | B1 |
| C 3005 | CHIP CAP. | 0.022uF | 16V | B | GRM36B223K16PT | K22128806 | | 1- | A | B1 |
| C 3006 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | A | B1 |
| C 3007 | CHIP CAP. | 15pF | 50V | CH | GRM36CH150J50PT | K22178216 | | 1- | A | B1 |
| C 3008 | CHIP CAP. | 1uF | 10V | F | GRM39F105Z10PT | K22105001 | | 1- | A | B1 |
| C 3009 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B1 |
| C 3010 | CHIP CAP. | 0.0056uF | 25V | B | GRM36B562K50PT | K22148802 | | 1- | A | B1 |
| C 3012 | CHIP CAP. | 0.001uF | 50V | B | GRM36B102K50PT | K22178809 | | 1- | A | B1 |
| J 3001 | CONNECTOR | | | | NTC-623PCBL6-B | P1091107 | | 1- | A | A1 |
| J 3002 | CONNECTOR | | | | IL-FHR-10S-HF-E3000 | P1091046 | | 1- | A | A1 |
| J 3003 | CONNECTOR | | | | MJ-66J-RD315K | P1091049 | | 1- | A | C1 |
| Q 3001 | IC | | | | NJM2904V-TE1 | G1091677 | | 1- | A | B1 |
| R 3001 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | B1 |
| R 3002 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 1- | A | B1 |
| R 3003 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | B1 |
| R 3004 | CHIP RES. | 2.2M | 1/16W | 5% | RMC1/16S 225JTH | J24189065 | | 1- | A | B1 |
| R 3005 | CHIP RES. | 15k | 1/16W | 5% | RMC1/16S 153JTH | J24189039 | | 1- | A | B1 |
| R 3006 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | B1 |
| R 3007 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | A | B1 |
| R 3008 | CHIP RES. | 4.7k | 1/16W | 5% | RMC1/16S 472JTH | J24189033 | | 1- | A | B1 |
| R 3009 | CHIP RES. | 150k | 1/16W | 5% | RMC1/16S 154JTH | J24189051 | | 1- | A | B1 |
| R 3010 | CHIP RES. | 100k | 1/16W | 5% | RMC1/16S 104JTH | J24189049 | | 1- | A | B1 |
| R 3011 | CHIP RES. | 33k | 1/16W | 5% | RMC1/16S 333JTH | J24189043 | | 1- | A | B1 |
| R 3012 | CHIP RES. | 47k | 1/16W | 5% | RMC1/16S 473JTH | J24189045 | | 1- | A | B1 |
| R 3013 | CHIP RES. | 100 | 1/16W | 5% | RMC1/16S 101JTH | J24189013 | | 1- | A | B1 |
| R 3014 | CHIP RES. | 10k | 1/16W | 5% | RMC1/16S 103JTH | J24189037 | | 1- | A | B1 |
| R 3015 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | A | B1 |
| R 3016 | CHIP RES. | 22 | 1/16W | 5% | RMC1/16S 220JTH | J24189005 | | 1- | A | B1 |
| R 3017 | CHIP RES. | 0 | 1/16W | 5% | RMC1/16S JPTH | J24189070 | | 1- | A | B1 |

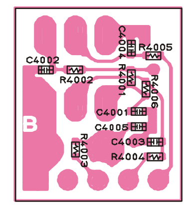
## *Circuit Diagram*




## *Parts Layout*




Side A



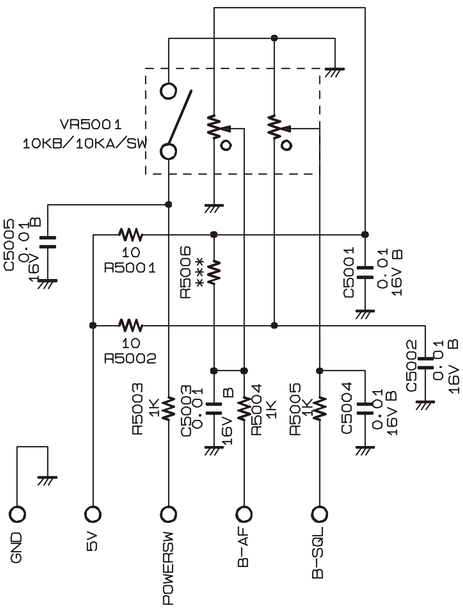

Side B

## *Parts List*

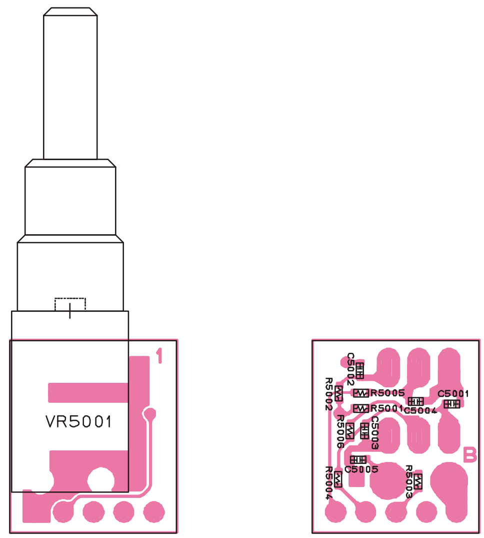
| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| | PCB with Components | | | | | CB2133001 | | | | |
| | Printed Circuit Board | | | | AH008M000 | FR0085800 | | 1- | | |
| C 4001 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| C 4002 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| C 4003 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| C 4004 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| C 4005 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| P 4000 | WIRE ASSY | | | | AH008M | T9206998 | | 1- | | |
| R 4001 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | B | a1 |
| R 4002 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | B | a1 |
| R 4003 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | a1 |
| R 4004 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | a1 |
| R 4005 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | a1 |
| R 4006 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1 | B | a1 |
| R 4006 | CHIP RES. | 2.2k | 1/16W | 5% | RMC1/16S 222JTH | J24189029 | | 2- | B | a1 |
| VR4001 | POT. | | | | TP76D00A 10KB/10KB/SW | J62800140 | | 1- | A | A1 |

# VR-R Unit

## *Circuit Diagram*




## *Parts Layout*




Side A    Side B

## *Parts List*

| REF | DESCRIPTION | VALUE | V/W | TOL. | MFR'S DESIG | VXSTD P/N | VERS. | LOT | SIDE | LAY ADR |
|---|---|---|---|---|---|---|---|---|---|---|
| | PCB with Components | | | | | CB2134001 | | | | |
| | Printed Circuit Board | | | | AH008M000 | FR0085900 | | 1- | | |
| C 5001 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| C 5002 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| C 5003 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| C 5004 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| C 5005 | CHIP CAP. | 0.01uF | 16V | B | GRM36B103K16PT | K22128804 | | 1- | B | a1 |
| P 5000 | WIRE ASSY | | | | AH008M | T9206998 | | 1- | | |
| R 5001 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | B | a1 |
| R 5002 | CHIP RES. | 10 | 1/16W | 5% | RMC1/16S 100JTH | J24189001 | | 1- | B | a1 |
| R 5003 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | a1 |
| R 5004 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | a1 |
| R 5005 | CHIP RES. | 1k | 1/16W | 5% | RMC1/16S 102JTH | J24189025 | | 1- | B | a1 |
| R 5006 | CHIP RES. | 22k | 1/16W | 5% | RMC1/16S 223JTH | J24189041 | | 1- | B | a1 |
| VR5001 | POT. | | | | TP76D00A 10KB/10KB/SW | J62800140 | | 1- | A | A1 |

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